Service Manual

Amplifier

Stereo Integrated Amplifier

SU-G90

Color

(K)	Black Type

Areas

Country Code	Area	Color
(P), (P2)	U.S.A.	(K)
(PC)	Canada	
(PX)	Far East-PX	

•System No.: **SC-S2200**
(Refer to page 3.) **SC-S3200**
SC-S3210

SPECIFICATIONS (IHF '78)

■ AMPLIFIER SECTION

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output 20 Hz~20 kHz both channels driven 0.05% total harmonic distortion
130 W per channel (8Ω)

1 kHz continuous power output both channels driven	
0.05% total harmonic distortion	135 W per channel (8Ω)
Dynamic headroom	1.1 dB (8Ω)
Dumping factor	30 (8Ω)
Total harmonic distortion half power at 1 kHz	0.03% (8Ω)
SMPTE intermodulation distortion	0.05% (8Ω)
Frequency response	
PHONO	RIAA standard curve ±0.8 dB
TUNER, CD, TAPE, VCR 2/TV, DAT/VCR 1/EQ	10 Hz~80 kHz, (+0, −3 dB)
Input sensitivity	
PHONO	0.4 mV (2.5 mV, IHF '66)
TUNER, CD, TAPE, VCR 2/TV, DAT/VCR 1/EQ	15 mV (150 mV, IHF '66)
S/N (IHF, A)	
PHONO	71 dB (73 dB, IHF '66)
TUNER, CD, TAPE, VCR 2/TV, DAT/VCR 1/EQ	75 dB (94 dB, IHF '66)
Maximum input voltage	
PHONO	128 mV (135 mV, 1 kHz IHF '66)
Input impedance	
PHONO	47 kΩ
TUNER, CD, TAPE, VCR 2/TV, DAT/VCR 1/EQ	47 kΩ
Tone controls	
BASS	50 Hz, +10 dB~−10 dB
TREBLE	20 kHz, +10 dB~−10 dB
SUPER BASS	80 Hz, +6 dB/oct
Output voltage TAPE, DAT/VCR 1/EQ, REC OUT	150 mV
Load impedance	
A or B	8Ω
A and B	8Ω

■ REAR AMPLIFIER SECTION

Power output	15 W×2 (8Ω 1 kHz) at T.H.D 0.8%

■ GENERAL

Power consumption	355 W, 485 VA
Power supply	
For U.S.A. and Canada:	AC 60 Hz, 120 V
For Far East-PX:	AC 50 Hz/60 Hz, 110 V/127 V/220 V/240 V
Dimensions (W×H×D)	430×130.5×310 mm (16 15/16″×5 1/8″×12 7/32″)
Weight	8.8 kg (19.4 lb.)

Notes:

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

■ CONTENTS

	Page
SAFETY PRECAUTION	2
BEFORE REPAIR	2
PROTECTION CIRCUITRY	3
ACCESSORIES	3
LINE-UP OF COMPONENTS	3
CONNECTIONS	4,5
LOCATION OF CONTROLS	6
DISASSEMBLY INSTRUCTIONS	7~9

	Page
BLOCK DIAGRAM	10~12
SCHEMATIC DIAGRAM	13~20
PRINTED CIRCUIT BOARDS	21~25
WIRING CONNECTION DIAGRAM	26
DESCRIPTION OF FL PANEL	27
REPLACEMENT PARTS LIST	28~30, 33, 34
PACKING	30
CABINET PARTS LOCATION	31, 32

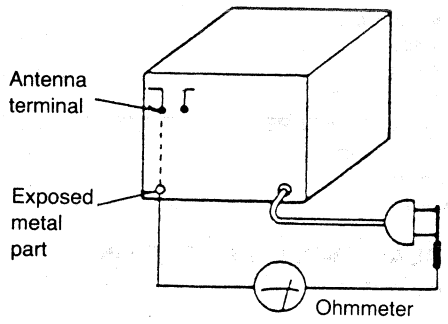
■ SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barries, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

•INSULATION RESISTANCE TEST

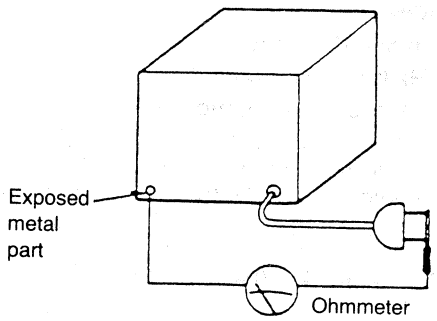
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Flg. A)

Resistance=3 MΩ–5.2 MΩ



(Flg. B)

Resistance=Approx. ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω 10 W resistor, connect both ends of power supply capcitors (C701, C702) in order to discharge the voltage.

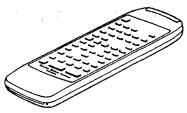
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 120 V 60 Hz in NO SIGNAL mode is **580 mA~830 mA.**

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

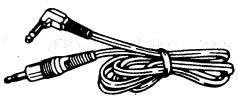
■ ACCESSORIES



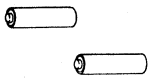
•Remote-control transmitter ..... 1 pc.
For (P, P2, PC)
areas ..... (RAK-SA501P1)
For (PX) area only.... (RAK-SA502E)

(Remote control cable ..... 1)

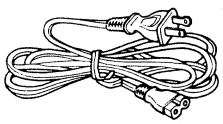
(Synchro edit cable ..... 1)



•Stereo mini cables
(SJP2257T) ..... 2 pcs.
For (PX) area only



•Batteries
(UM-4, "AAA", R03) ..... 2 pcs.



•AC power supply cord
(polarized) ..... 1 pc.
For (PX) area only..... (RJA0004)

•Speaker cables for rear
speakers..... 2 pcs.
For (P2) area only ..... (REE0331)

•AC Plug adaptor ..... (SJP9215)
For (PX) area only

■ LINE-UP OF COMPONENTS

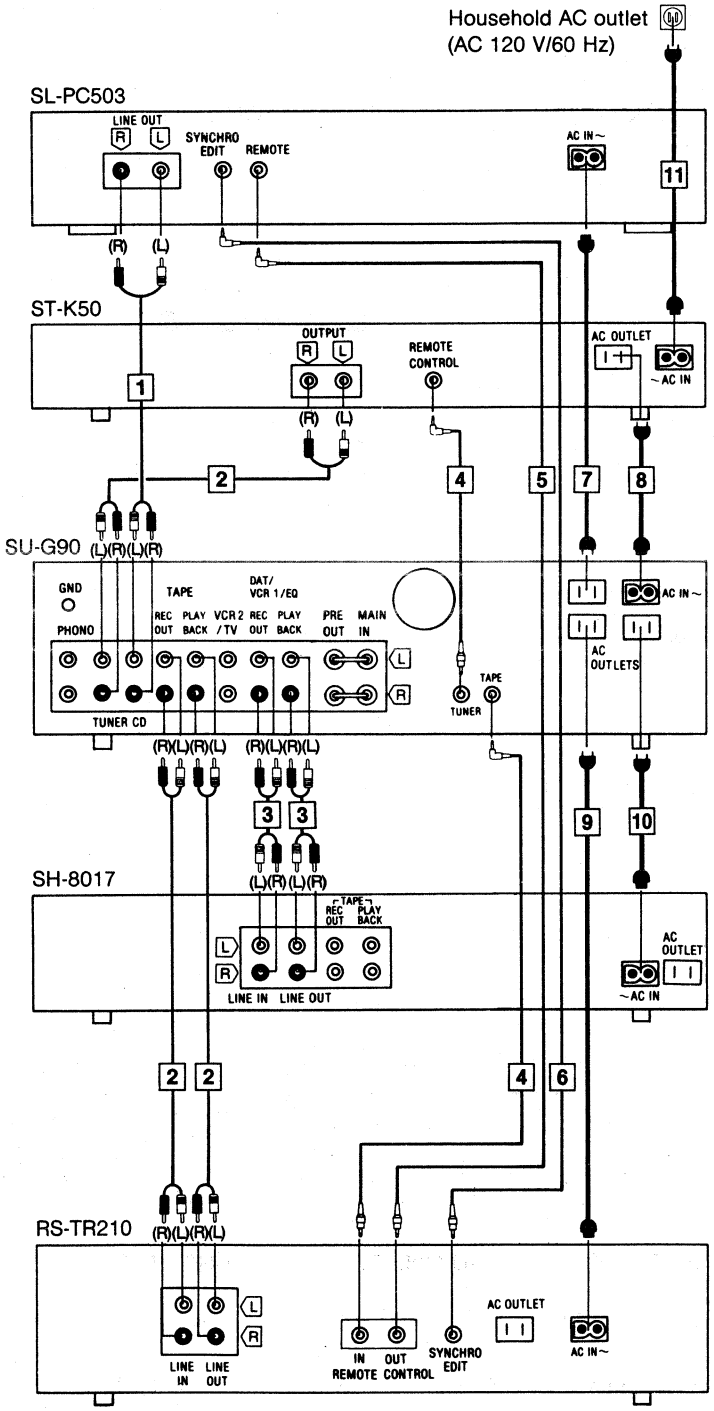
System Name / Model Name	SC-S2200		SC-S3200		SC-S3200 (P)
	P	PC	P	PC	
Tuner	ST-K50 (P)	ST-K50 (PC)	ST-K50 (P)	ST-K50 (PC)	ST-K50 (P)
Amplifier	**SU-G90 (P)**	**SU-G90 (PC)**	**SU-G90 (P2)**	**SU-G90 (PC)**	**SU-G90 (P2)**
Cassette Deck	RS-TR210 (P)	RS-TR210 (PC)	RS-TR311 (P)	RS-TR210 (PC)	RS-TR311 (P)
CD Player	SL-PC503 (P)	SL-PC503 (PC)	SL-PC503 (P)	SL-PC503 (PC)	SL-PC503 (P)
Equalizer	SH-8017 (P)	———	SH-8017 (P)	SH-8017 (PC)	SH-8017 (P)
Front Speaker	SB-A32 (P)	SB-A32 (PC)	SB-A52 (P)	SB-A52 (PC)	SB-A521 (P)
Rear Speaker	———	———	SB-S15 (P)	———	SB-S15 (P)
Ruck	SH-KS32 (P)	SH-KS32 (PC)	SH-KS52 (P)	SH-KS52 (PC)	SH-KS52 (P)

■ CONNECTIONS

Make connections to each component by using the included cords and cables.

Note:

Components capable of receiving remote-control transmission via the remote control cable will not respond to the remote-control transmitter commands unless the audio cables are connected. The same applies to components connected for "CD synchro-edit" operation.



☐1 **Connect the stereo connection cable included with SL-PC503.**

☐2 **Connect the stereo connection cables included with RS-TR210.**

☐3 **Connect the stereo connection cables included with SH-8017.**

☐4 **Connect the stereo mini cables for remote-control included with RS-TR210.**

☐5 **Connect the stereo mini cable for remote-control included with SL-PC503.**

☐6 **Connect the stereo mini cable for CD synchro-edit-recording included with RS-TR210.**

☐7 **Connect the AC power supply cord included with SL-PC503.**

☐8 **Connect the AC power supply cord (short thick type) included with RS-TR210.**

☐9 **Connect the AC power supply cord (short thick type) included with RS-TR210.**

☐10 **Connect the AC power supply cord included with SH-8017.**

☐11 **Connect the AC power supply cord (long thin type) included with RS-TR210.**

AC outlets of each unit

Do not connect video equipment (such as a TV, etc.) to these outlets. (These outlets are intended for audio equipment.)

Do not exceed the indicated power ratings when connecting to these outlets.

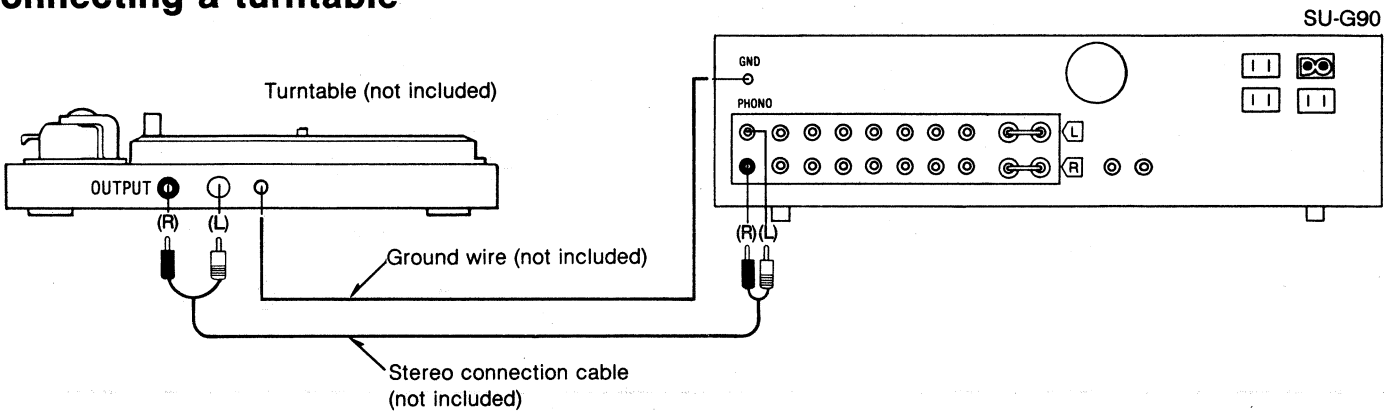
Caution:

If the AC outlets of SH-8017 and/or RS-TR210 are used, make sure that the total power consumption of the equipment connected to the AC outlets does not exceed 80 W.

External unit connections

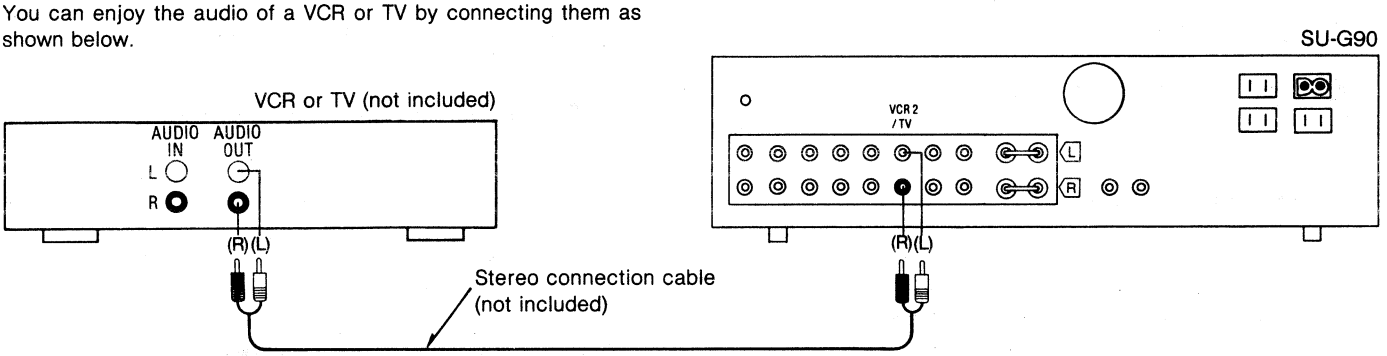
For details, refer to the instruction manual of the unit to be connected.

Connecting a turntable

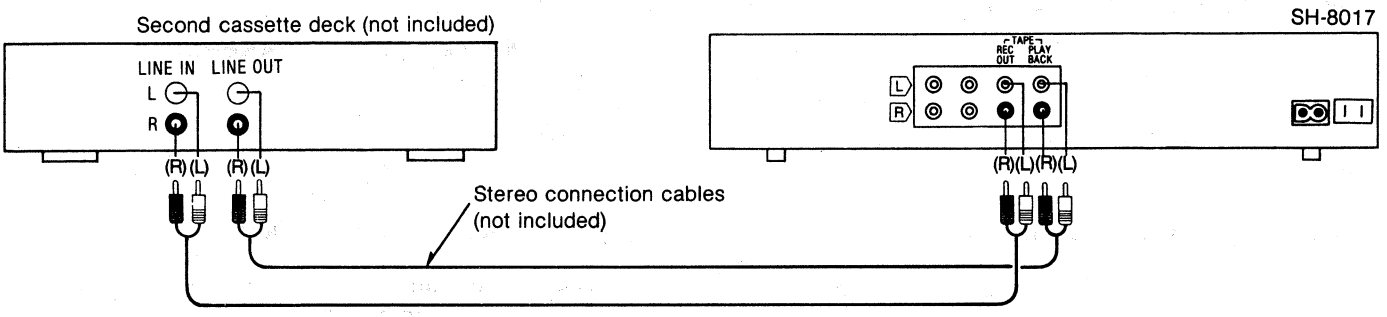


Connecting a VCR or TV (audio line only)

You can enjoy the audio of a VCR or TV by connecting them as shown below.



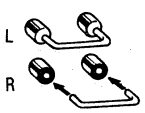
Connecting a second cassette deck



Concerning the "PRE OUT/MAIN IN" terminals and cooling fan of the amplifier

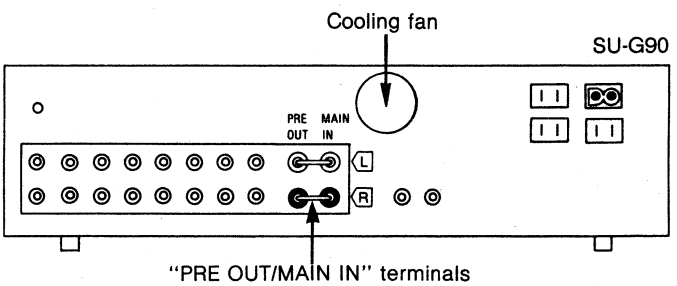
"PRE OUT/MAIN IN" terminals

Use these terminals to operate the amplifier as an independent preamplifier or main amplifier.
Do not remove these pins otherwise.
(No sound will be heard if they are removed.)

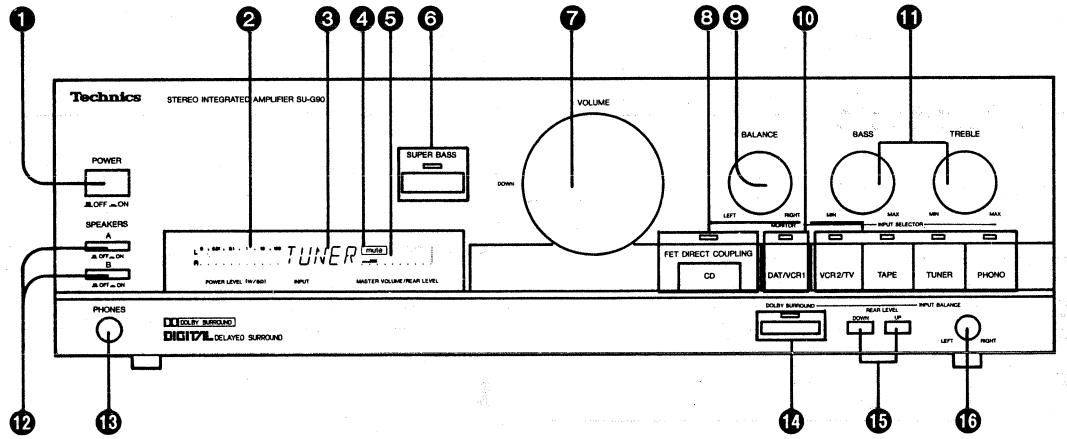


Cooling fan

The cooling fan operates only at high output power levels.



■ LOCATION OF CONTROLS



The functions indicated by the numbers with black background (❼) can also be activated from the remote control transmitter.

❶ Power switch (POWER)

❷ Peak-power indicators (POWER LEVEL)

These indicators indicate the peak power value of the output level to the speaker systems.

❸ Input selector/volume level display (INPUT)

This display usually shows the sound source selected by the input selectors; when the volume-control is used to adjust the volume level, the level is displayed in decibels for about three seconds, after which the display returns again to indication of the sound source.

Note that as the level is increased, the number in - - dB decreases.

❹ Muting indicator (mute)

This indicator will illuminate when the muting button on the remote-control transmitter is pressed.

❺ Volume indicator (MASTER VOLUME/REAR LEVEL)

Indicates the volume output level at a glance.

❻ Super bass switch/indicator (SUPER BASS)

Low frequency sounds are reinforced when this switch is pressed.

The indicator above will illuminates.

❼ Volume control (VOLUME)

❽ Input selectors/indicators (INPUT SELECTOR)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcasts, etc. The corresponding input selector indicator illuminates during operation to indicate the selected sound source.

The selected sound source is also displayed on the input selector/volume level display.

The "PHONO" input selector can also be used to disable the muting function.

To do this press and hold the button for about 4 seconds.

❾ Balance control (BALANCE)

This control is used to adjust the left/right volume balance.

❿ DAT/VCR 1-monitor switch/indicator (MONITOR)

Set this switch to the ON position (so that the indicator above is illuminated) when using a graphic equalizer or, playing back or monitoring the sound from a digital audio tape deck or a VCR connected to the "DAT/VCR 1/EQ" terminals. This selector should be set to the OFF position (indicator off) at all other times.

⓫ Tone controls (BASS/TREBLE)

The bass control is used to adjust the low-frequency sound range, and the treble control is used to adjust the high-frequency sound range.

⓬ Speaker selectors (SPEAKERS)

These selectors are used to turn the speaker systems on and off.

Note:

When only one speaker system is connected to the amplifier, no sound will be heard if both speaker selectors are pressed.

⓭ Headphones jack (PHONES)

⓮ Dolby surround ON/OFF switch (DOLBY SURROUND)

This switch is used to activate the Dolby surround effect. When this switch is switched OFF, no sound will be heard from the rear speaker systems.

⓯ Rear speaker volume controls (REAR LEVEL)

These controls are used to adjust the volume level of the rear speaker systems.

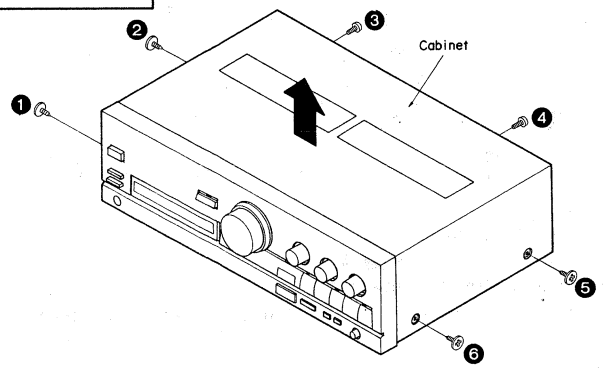
⓰ Dolby surround input balance control (INPUT BALANCE)

This control is used to minimize dialogue leakage in the surround channel thereby optimizing the Dolby surround decording operation.

■ DISASSEMBLY INSTRUCTIONS

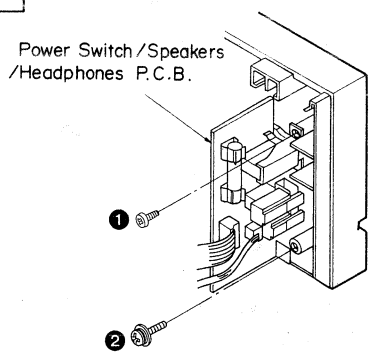
"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet
Procedure 1	



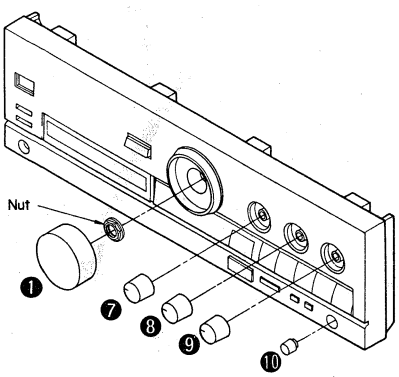
●Remove the 6 screws (❶~❻).

Ref. No. 3	Removal of the Power Switch/ Speakers/Headphones P.C.B.
Procedure 1→2→3	

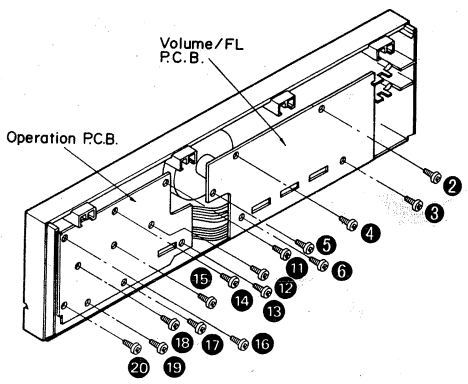


●Remove the 2 screws (❶, ❷).

Ref. No. 4	Removal of the Volume/FL P.C.B. and Operation P.C.B.
Procedure 1→2→3→4	

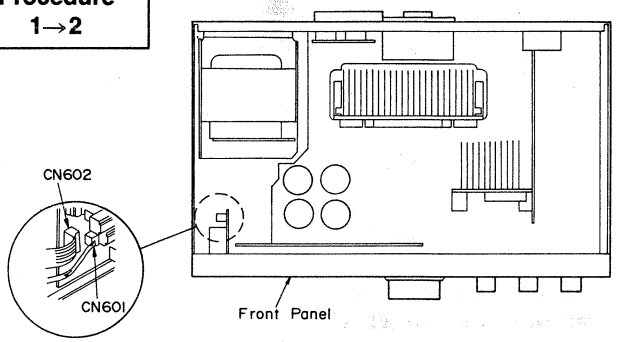


■ Volume/FL P.C.B.
1. Pull out the 1 knob (❶).
2. Remove the nut.
3. Remove the 5 screws (❷~❻).

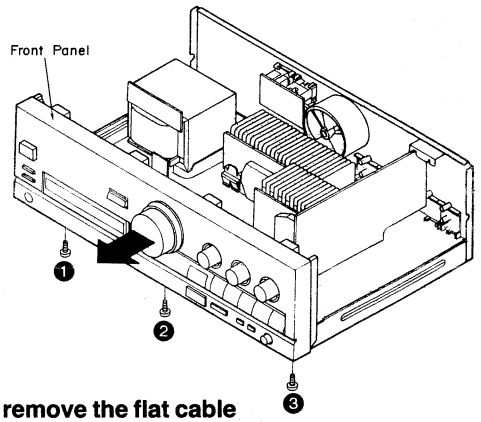


■ Operation P.C.B.
1. Pull out the 4 knobs (❼~❿).
2. Remove the 10 screws (⓫~⓴).

Ref. No. 2	Removal of the Front Panel
Procedure 1→2	

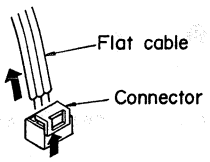


1. Remove the 2 flat cables (CN601, CN602).
2. Remove the 3 screws (❶~❸).
3. Remove the front panel in the direction of arrow.

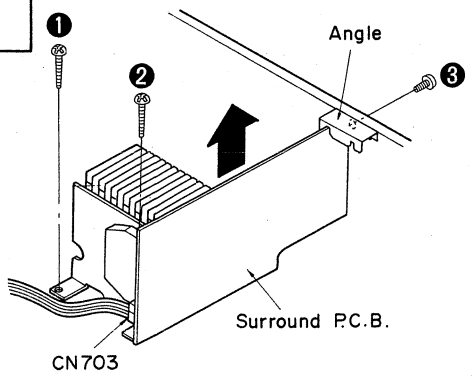


How to remove the flat cable

1. Lift the connector.
2. Pull out the flat cable.

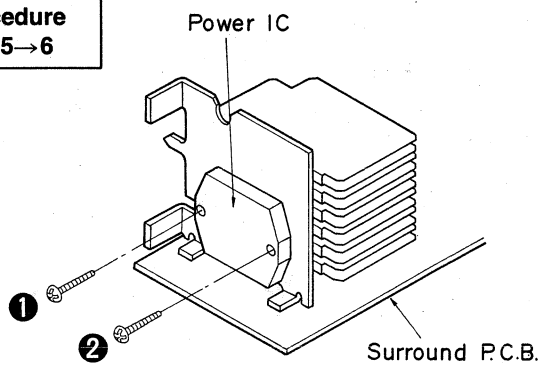


Ref. No. 5	Removal of the Surround P.C.B.
Procedure 1→5	



1. Remove the flat cable (CN703).
2. Remove the 3 screws (❶~❸).
3. Remove the angle.
4. Remove the surround P.C.B. in the direction of arrow.

Ref. No. 6	Removal of the Power IC
Procedure 1→5→6	

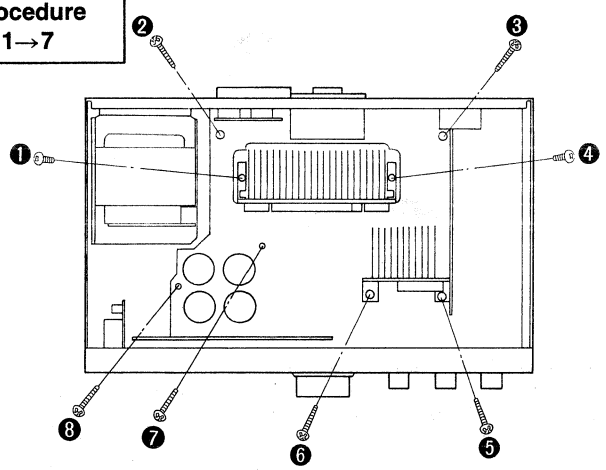


1. Unsolder the power IC.
2. Remove the 2 screws (❶, ❷).

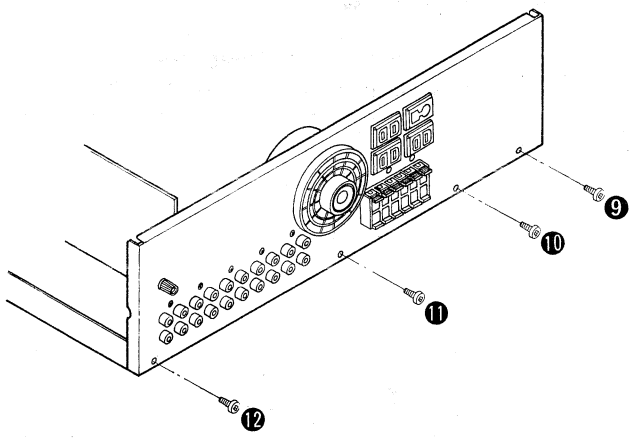
•When mounting the power IC

Apply silicone compound (SZZOL 15) to the rear side of power IC.

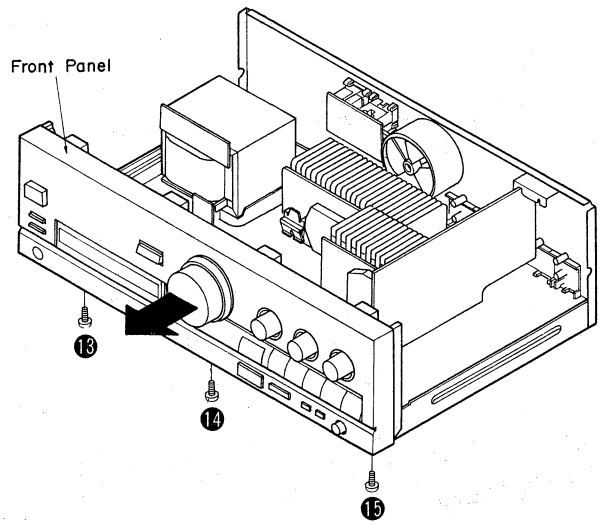
Ref. No. 7	Check of the main P.C.B.
Procedure 1→7	



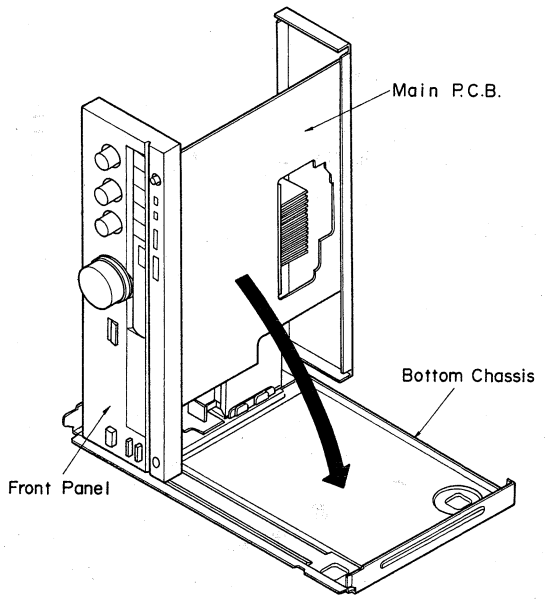
1. Remove the 8 screws (❶~❽).



2. Remove the 4 screws (❾~⓬).



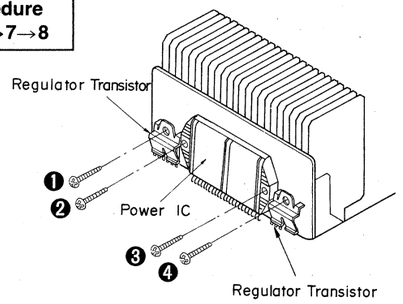
3. Remove the 3 screws (⓭~⓯).
4. Remove the front panel in the direction of arrow.



5. Remove the bottom chassis in the direction of arrow.
6. Reinstall the front panel to the main P.C.B.

Ref. No. 8 — Removal of the Power IC and Regulator Transistor

Procedure
1→5→7→8

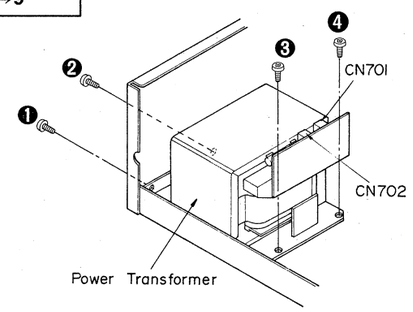


1. Unsolder the power IC or regulator transistor.
2. Remove the 4 screws (❶~❹).

•When mounting the power IC or regulator transistor.
Apply silicone compound (SZZOL15) to the rear side of power IC or regulator transistor.

Ref. No. 9 — Removal of the Power Transformer

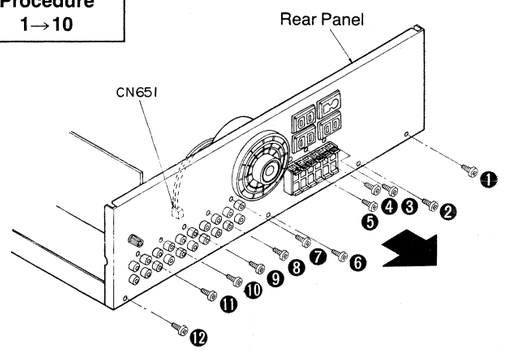
Procedure
1→9



1. Remove the 2 flat cables (CN701, CN702).
2. Remove the 4 screws (❶~❹).

Ref. No. 10 — Removal of the Rear Panel

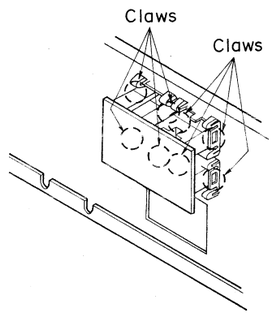
Procedure
1→10



1. Remove the 1 connector (CN651).
2. Remove the 12 screws (❶~⓬).
3. Remove the rear panel in the direction of arrow.

Ref. No. 12 — Removal of the AC Outlet/AC Inlet P.C.B.

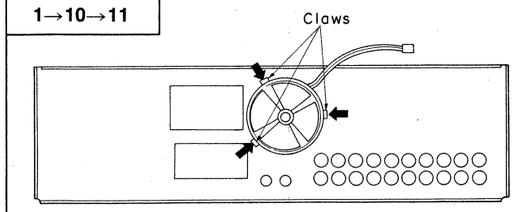
Procedure
1→10→12



•Release the 8 claws.

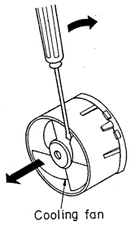
Ref. No. 11 — Removal of the Fan Motor

Procedure
1→10→11

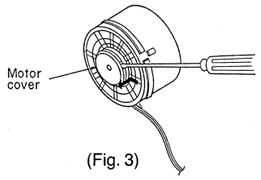


(Fig. 1)

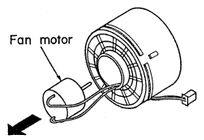
1. Release the 3 claws. (See Fig. 1)
2. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2)
3. Remove the motor cover by used ⊖ screwdriver. (See Fig. 3)
4. Remove the motor from the fan casing. (See Fig. 4)
5. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor. (See Fig. 5)



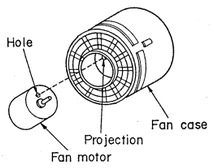
(Fig. 2)



(Fig. 3)

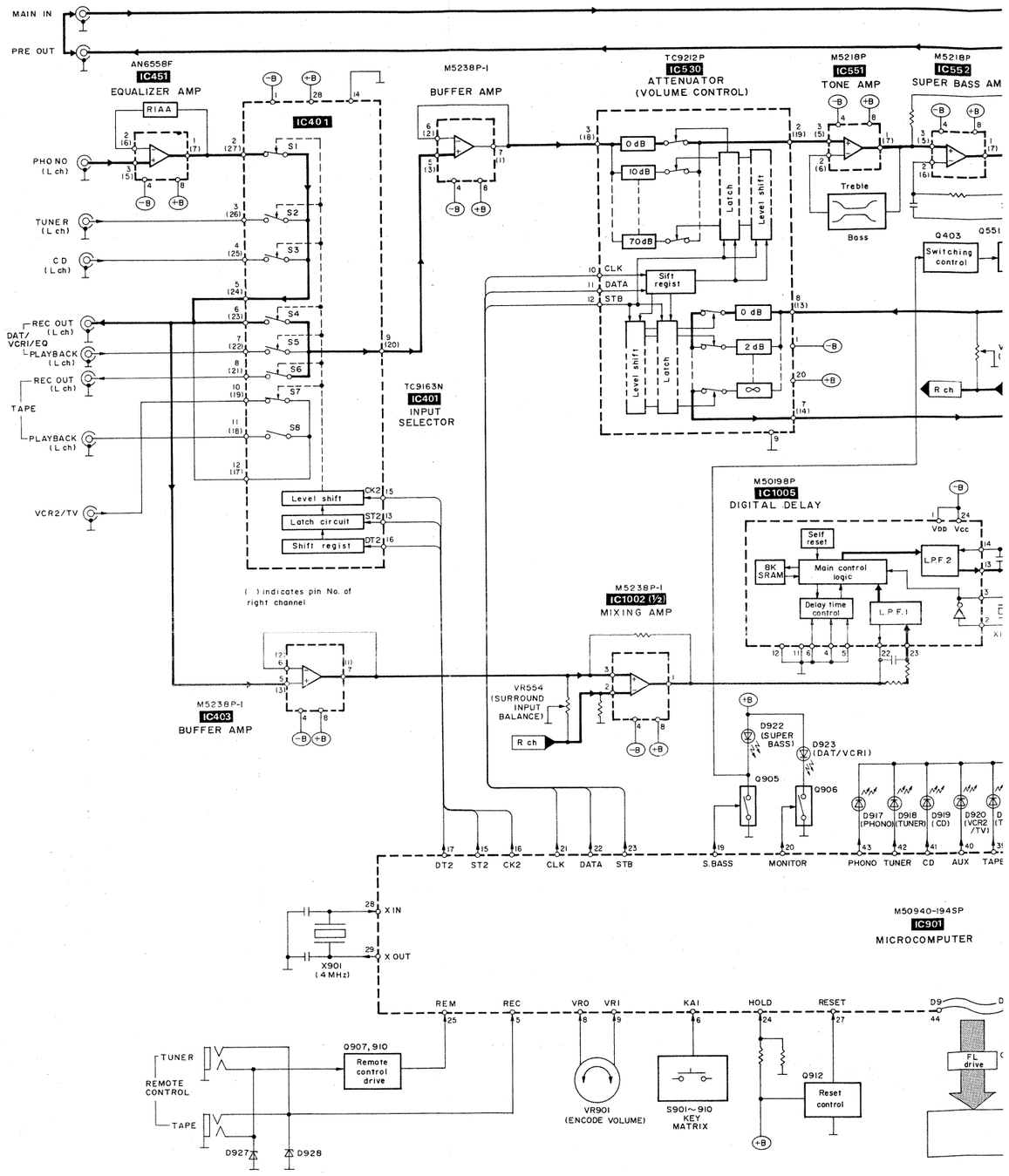


(Fig. 4)



(Fig. 5)

■ BLOCK DIAGRAM



M5218P
IC551
ONE AMP

M5218P
IC552
SUPER BASS AMP

Treble

Bass

Q503

Q505
Muting control

Q403

Q551
Switching control

VR553
(BALANCE)

R ch

R ch

IC601
POWER AMP

NF

Bias

Short det.

Mute det.

DC det.

AC det.

Q601
Relay drive

RLY601

S601-2
(B)

S601-1
(A)

on

off

R ch

HEADPHONES

B

SPEAKERS

A

(L ch)

Q651,652
Motor drive

M
FAN MOTOR

Q901(Q902)
Switching

M5218P
IC1004 (1/2)
BUFFER AMP

TC9212P
IC1003
ATTENUATOR
(VOLUME CONTROL)

M5218P
IC1004 (1/2)
BUFFER AMP

SVI3101C
IC1101
POWER AMP
(SURROUND SPEAKER DRIVE)

NF

Drive

Power

Detector

Muting

Power ON/OFF

Bias

-Vcc Vcc

SURROUND SPEAKER

(L ch)

SVITA7629P
IC1001
DOLBY B NR

P.S

M5238P
IC1002 (1/2)
FILTER AMP

VDD Vcc

L.P.F.2

L.P.F.1

X1001

control logic

0 dB

10 dB

70 dB

Latch

Level shift

CK3

DT3

ST3

Shift regist

0 dB

2 dB

Level shift

Latch

D925,926

Q904,
Q1101,1102

Muting drive

D924
(SURROUND)

Q903

D917
(PHONO)

D918
(TUNER)

D919
(CD)

D920
(VCR2
/TV)

D921
(TAPE)

PHONO TUNER CD AUX TAPE

MUTE

PML
(PMK)

SURR

CK3

DT3

ST3

M50940-194SP
IC901
MICROCOMPUTER

D9 D2

SIO SI

AVcc Vcc VP

FL drive

Q913~915

FL901 (FL DISPLAY)

To POWER TRANSFORMER

Q701,D705
Regulator

Q705,D706
Regulator

Q722
Stabilizer

D708

Q708,D709
Regulator

Q710,D711
Regulator

D701~704
RECT

T701
Power transformer

S701
(POWER)

F1

AC IN

(UNSWITCHED)

AC OUTLETS

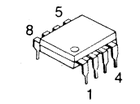
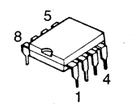
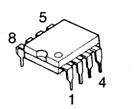
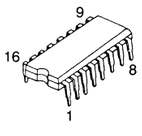
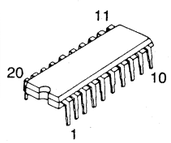
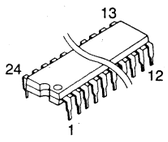
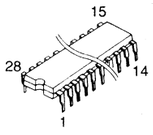
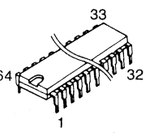
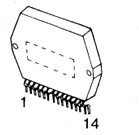
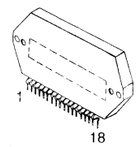
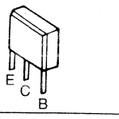
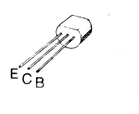
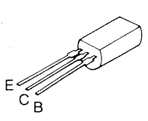
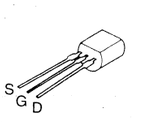
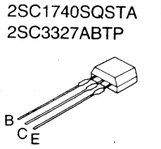
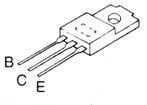
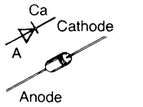
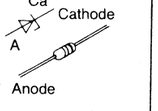
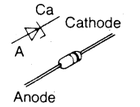
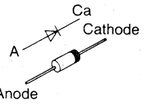
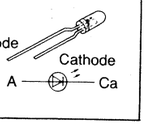
(UNSWITCHED)

(UNSWITCHED)

D1101~1104
RECT

To FL DISPLAY

•TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES.

M5218P 	M5238P-1 	AN6558F 
SVITA7629P 	TC9212P 	M50198P 
TC9163N 	M50940-194SP 	SV3101C 
SVI3206C 	UN4111TA UN4211TA UN4215TA 	2SA992EFTA 
2SC3940AQSTA 	2SK301RSTA 	2SA933SQRSTA 2SC1740SQSTA 2SC3327ABTP 
2SB1187DEF 2SD1761DEF 	MA165TA MA167ATA 1SS291TA 	MA4056MTA MA4068MTA 
MA4120MTA MA4150MTA MA4270MTA 	P300DLF GP15GLF 	LN081516PM 

■ SCHEMATIC DIAGRAM

(Parts list on pages 28, 29, 33 and 34)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- •S601-1, 601-2 : Speaker selector switches. (S601-1: A, S601-2: B)
- •S701 : Power switch in "on" position.
- •S751 : Voltage select switch in "110 V" position (110 V/ 127 V/220 V/240 V) for (PX) area only.
- •S901 : Input selector (PHONO) switch.
- •S902 : Input selector (TUNER) switch.
- •S903 : Input selector (CD) switch.
- •S904 : Input selector (TAPE) switch.
- •S905 : Input selector (VCR2/TV) switch.
- •S906 : Input selector (DAT/VCR1) switch.
- •S907 : Super bass switch.
- •S908 : Rear level (UP) switch.
- •S909 : Rear level (DOWN) switch.
- •S910 : Dolby surround switch.

CD • Phono signal line
Dolby surround signal
Positive voltage line
Recording signal
Negative voltage line

- •Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- •Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

***Caution!**

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
*Cover the parts boxes made of plastics with aluminum foil.
*Ground the soldering iron.
*Put a conductive mat on the word table.
*Do not touch the legs of IC or LSI with the fingers directly.

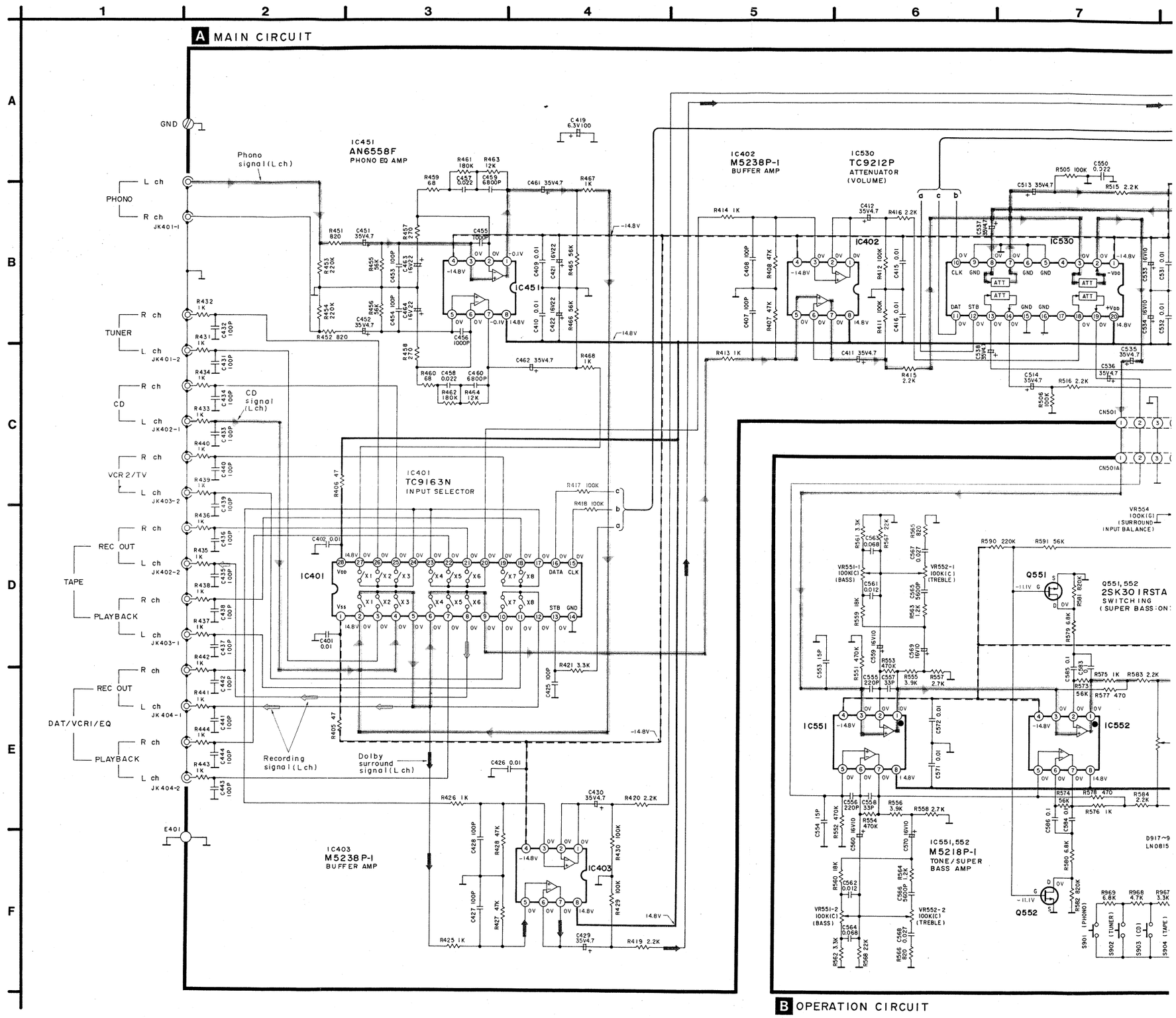
CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE **2.5 A 125 V/7 A 125 V FUSES.**

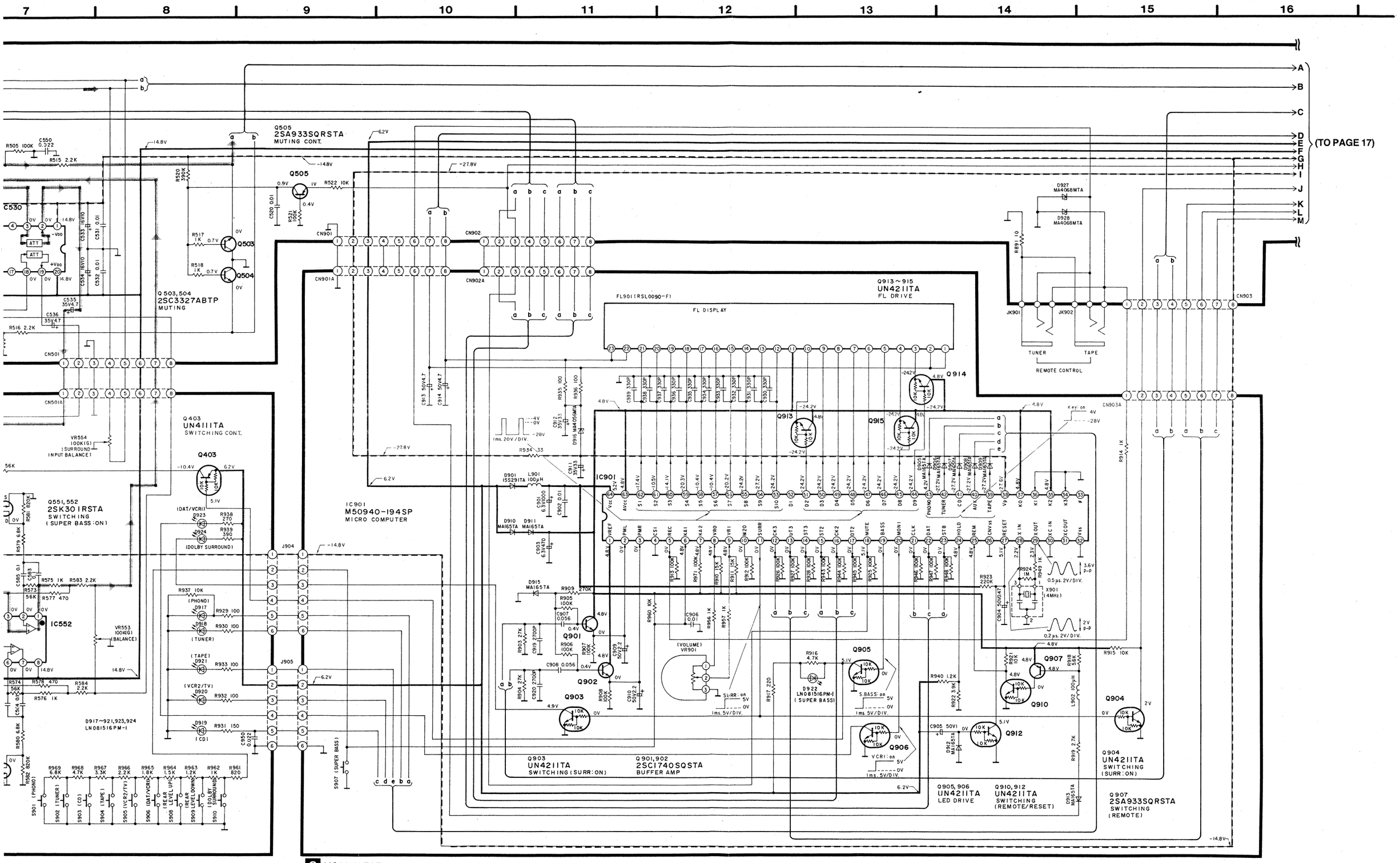
RISK OF FIRE-REPLACE FUSE AS MARKED.

FUSE CAUTION

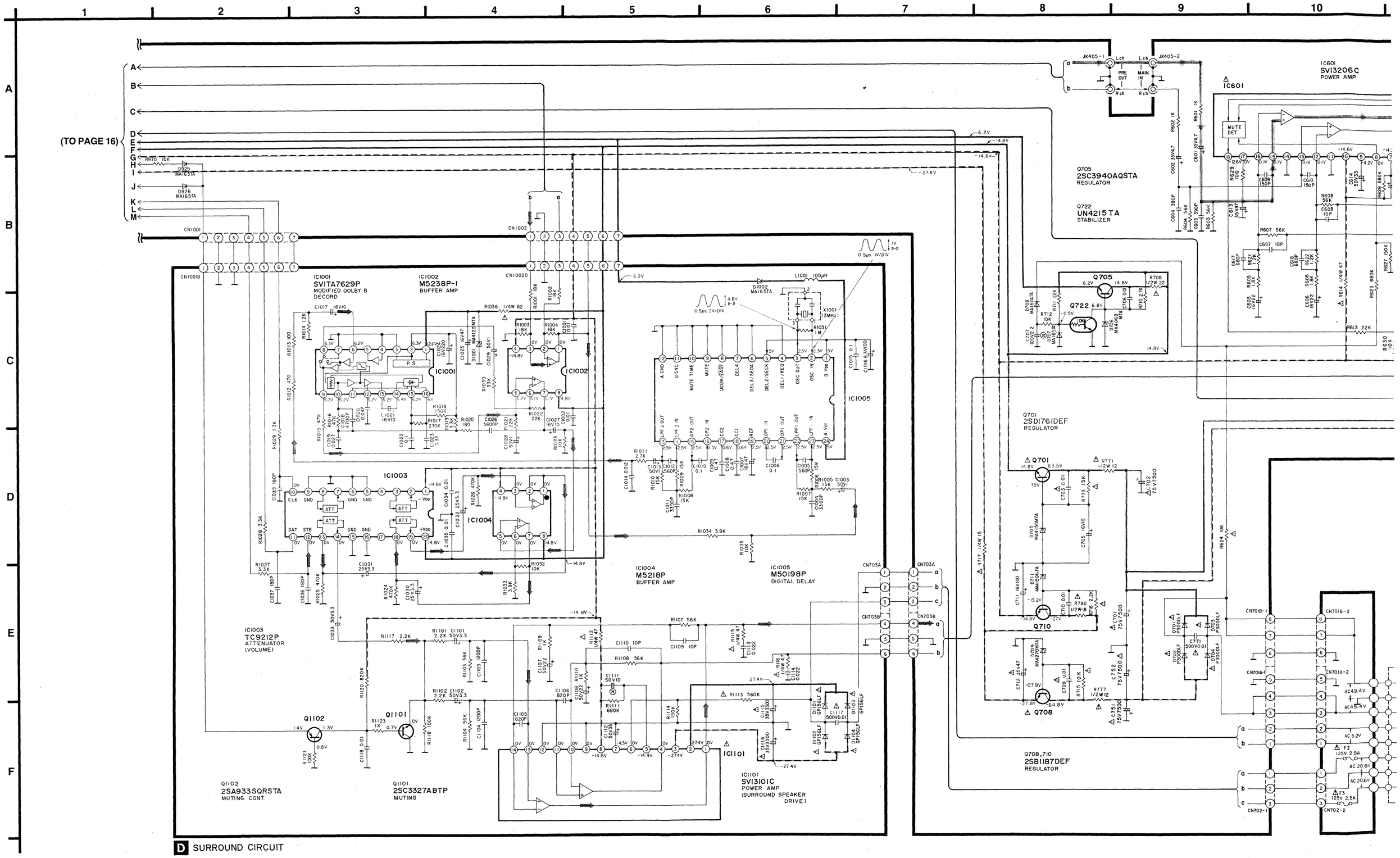
This symbol located near the fuse indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating, refer to the rating adjacent to the symbol.

Ce symbole indique que le fusible utilisé est à rapide. Pour une protection permanente, n'utiliser que des fusibles de même type. Ce dernier est indiqué là qù le présent symbole est apposé





C VOLUME/FL DRIVE CIRCUIT



D SURROUND CIRCUIT

For [PX] area.

IC601
SVI3206C
POWER AMP

TH601
CN652
D653 MA165TA
R670 1.5K

Q651 0V
-14.8V
Q651
2SC1740SQSTA
MOTOR DRIVE
Q652 0V
-14.8V
Q652
2SA933SQRSTA
MOTOR DRIVE

R659 1/2W 22
R660 1/2W 22
R661 1/2W 22
CN651
D652 MA4068MTA
FAN MOTOR
R658 22K
R657 10K
R656 10K
D651 MA165TA
C651 50V1
R655 3.9K
R651 22K
R652 22K
R653 22K
R654 22K

JK601
L ch (A) R ch
JK602
L ch (B) R ch
JK603
L ch SURROUND R ch
SPEAKERS

-14.6V 0.1V
-14.2V 4.2V
-65.3V 0V
-6.3V 0V
-63.5V
65.2V
C610 150P
C614 50V33
C615 100V10
R608 56K
C608 10P
R623 680K
C616 100V2.2
L602 0.7μH
R610 10
L601 0.7μH
R612 1/2W 10
R609 10
C612 0.022
R611 1/2W 10
C611 0.022
R602 100K
R601 100K
C618 680P
R614 1/4W 47
R606 1.8K
C606 16V22
R627 150K
R623 680K
R615 680
R616 680
R617 1/2W 680
R618 1/2W 680
RL601
D601 MA165TA
Q601
-0.5V
-0.7V
R613 22K
R630 10K
-14.8V
65.2V
65.3V
Q601
2SA992EFTA
RELAY DRIVE

CN601 CN602A CN602B
S601-2 (B) on off
R620 2W 330
R619 2W 330
JK604 HEADPHONES
(SPEAKERS)
S601-1 (A) on off

△F1 125V 7A
△S701 (POWER)
C791 0.01

CN701B-2
CN701A-2
△T701
AC 49.4V
AC 49.4V
AC 5.2V
△F2 125V 2.5A
AC 20.6V
AC 20.6V
△F3 125V 2.5A
CN702-2

△JK704 △JK703 △JK702 (UNSWITCHED)
△JK701
AC 120V (60Hz)
(AC OUTLETS)

E POWER SWITCH/ SPEAKERS/ HEADPHONES JACK CIRCUIT

F AC IN/AC OUTLETS CIRCUIT
For [P, P2, PC] areas.

Power Supply For [PX] area.

CN601 CN602A CN602B
S601-2 (B) on off
R620 2W 330
JK604 HEADPHONES
R619 2W 330
(SPEAKERS)
S601-1 (A) on off

G VOLTAGE ADJ. CIRCUIT
△S751 (VOLTAGE ADJ.)
110V 127V 220V 240V
△F4 T2.5A

△S701 (POWER)
△F1 T5A
C791 0.01

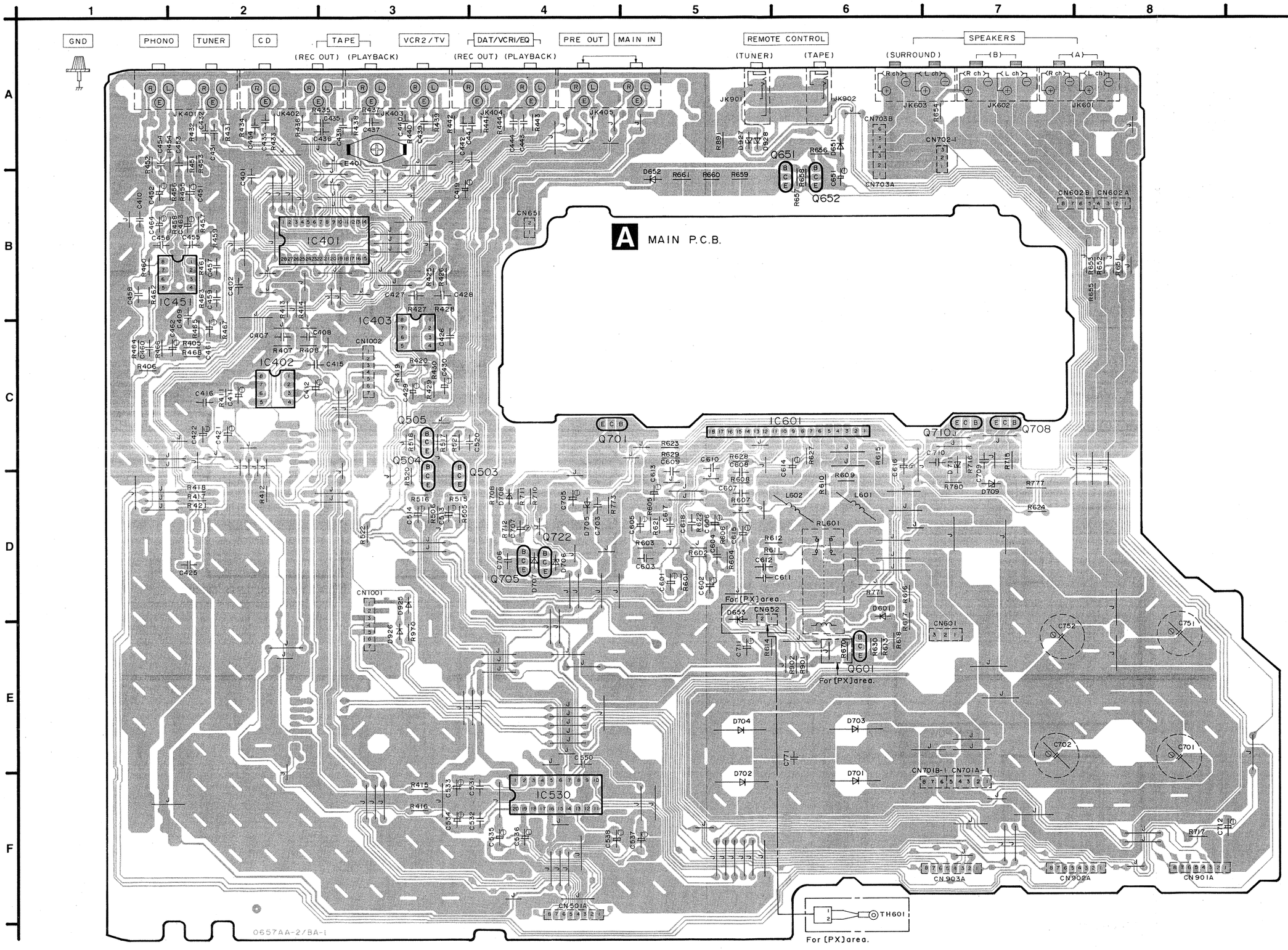
CN701B-2
CN701A-2
△T701
△F2 T2.5A
△F3 T2.5A
CN702-2

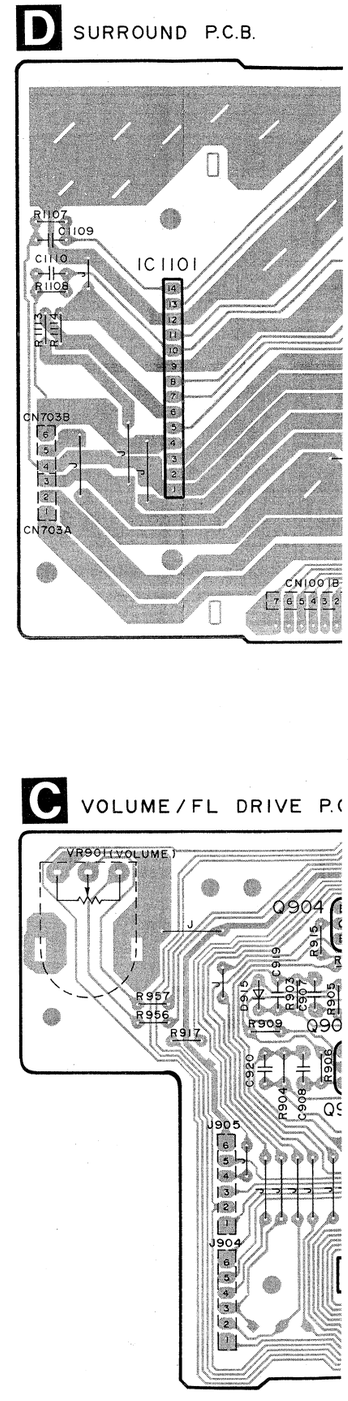
△JK704 △JK703 △JK702 (UNSWITCHED)
△JK701
AC 110/127/220/240V (50/60Hz)
(AC OUTLETS)

E POWER SWITCH/ SPEAKERS/ HEADPHONES JACK CIRCUIT

F AC IN/AC OUTLETS CIRCUIT

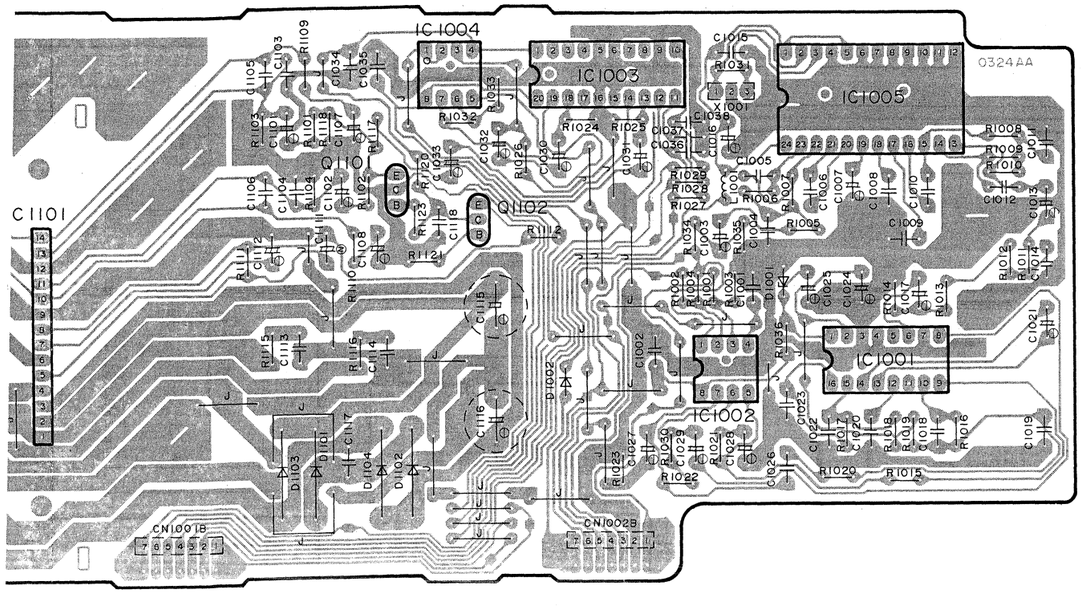
■ PRINTED CIRCUIT BOARDS (Parts list: pages 28, 29, 33 and 34; Terminal guide: page 12)



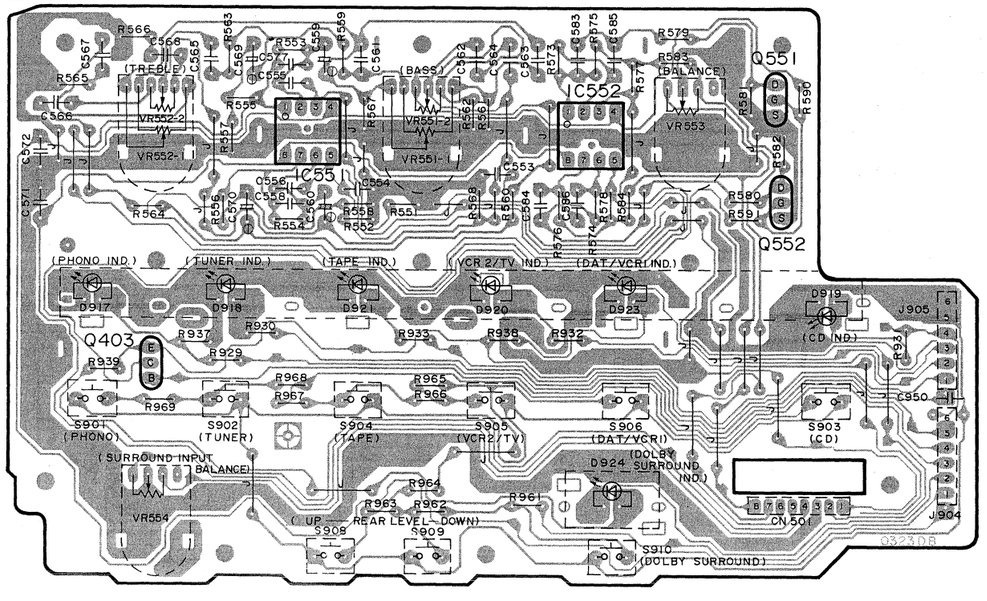


10 11 12 13 14 15 16 17 18 19

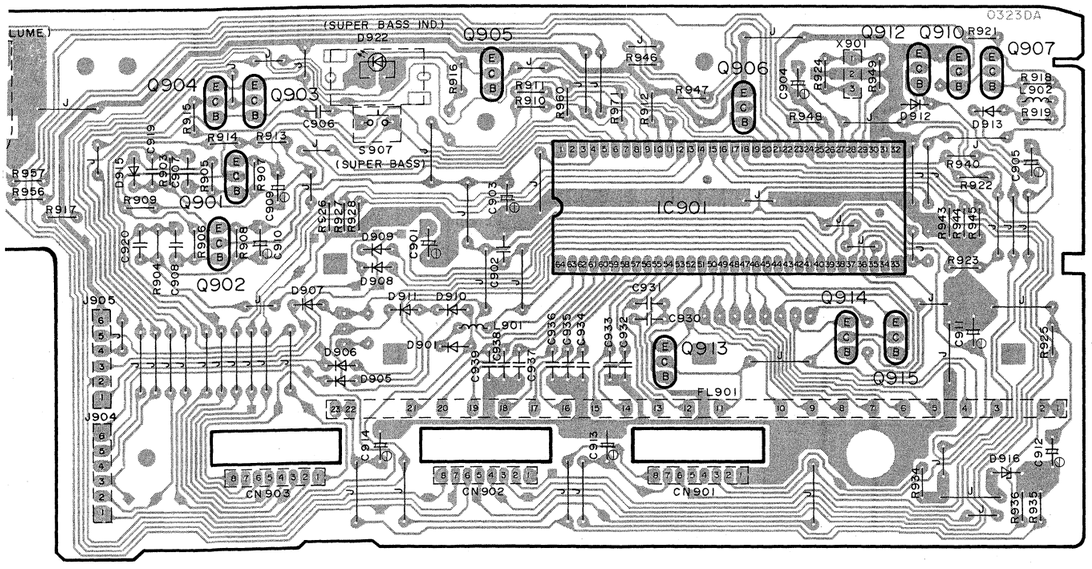
UND P.C.B.



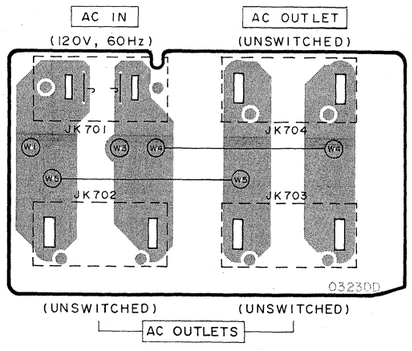
B OPERATION P.C.B.

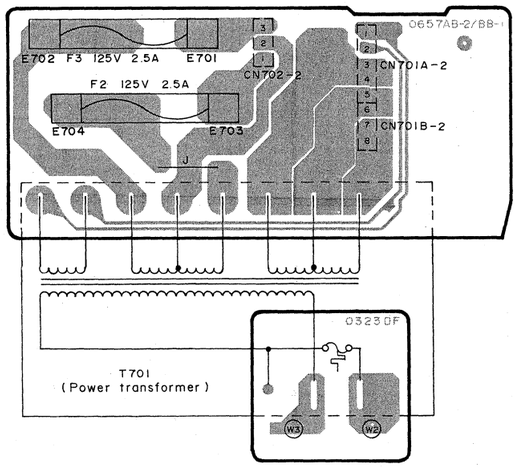


IME / FL DRIVE P.C.B.

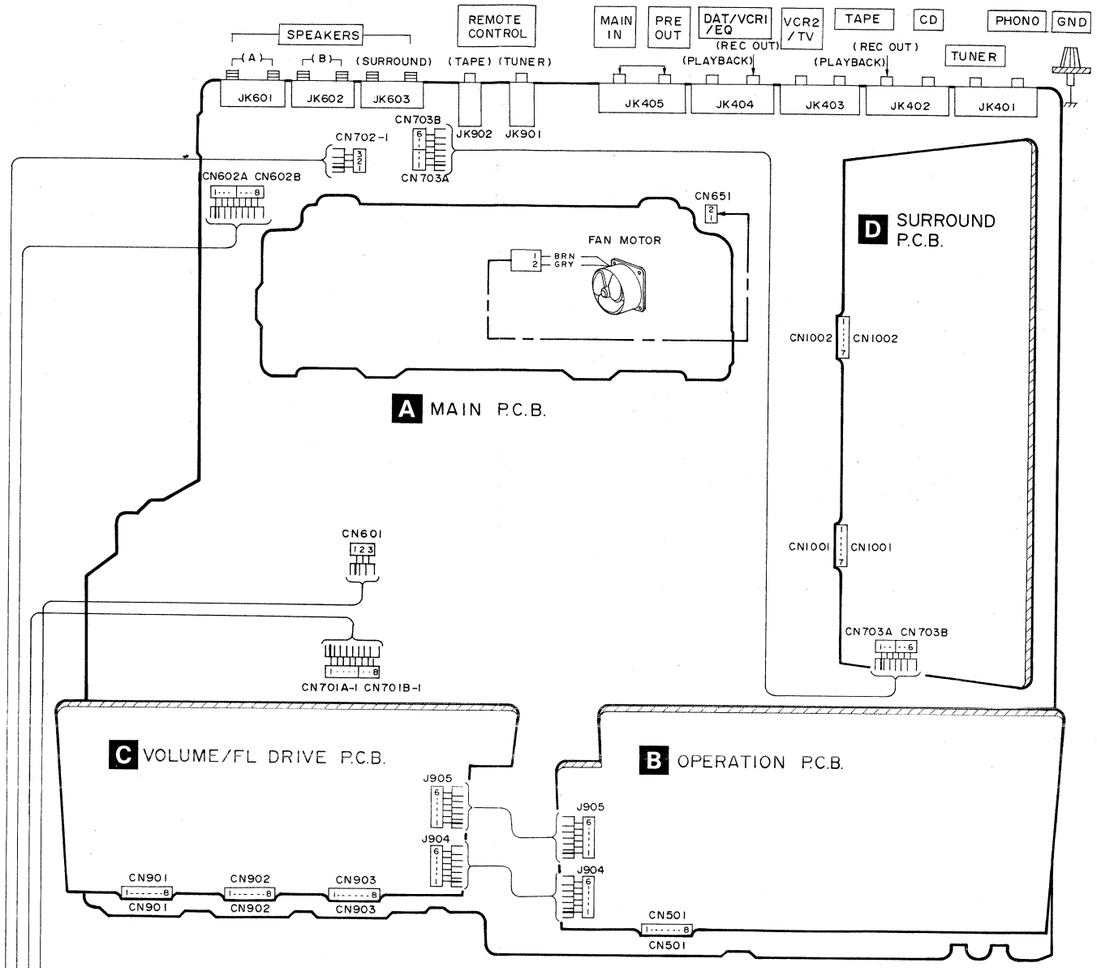


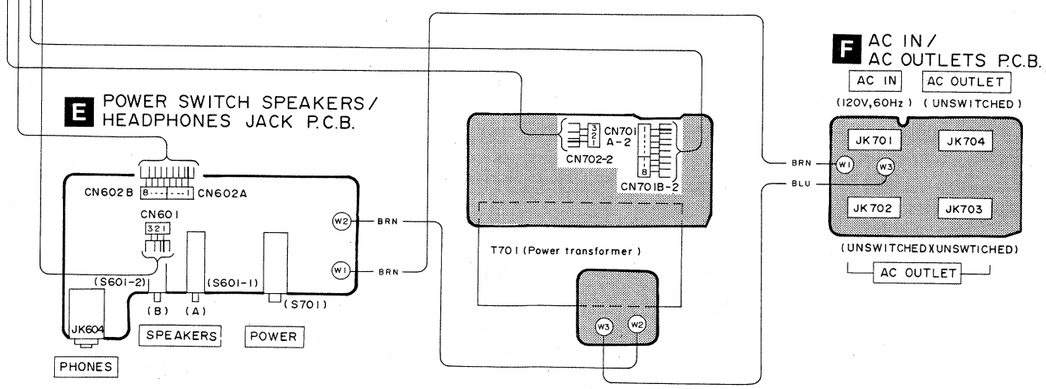
F AC IN/AC OUTLETS
P.C.B. For [P,P2,PC] areas.

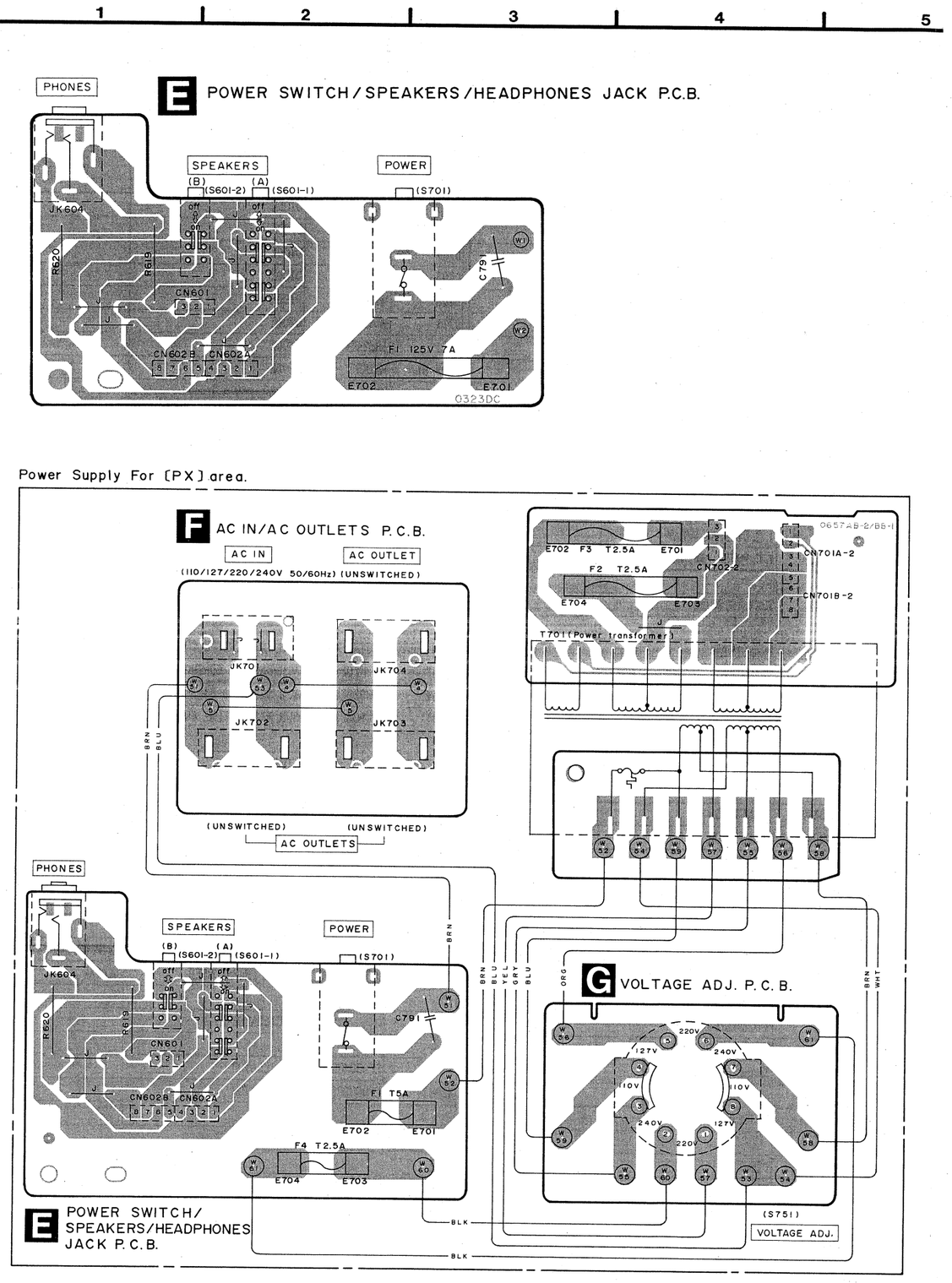




■ WIRING CONNECTION DIAGRAM

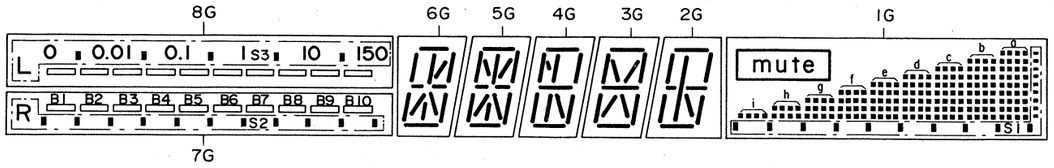


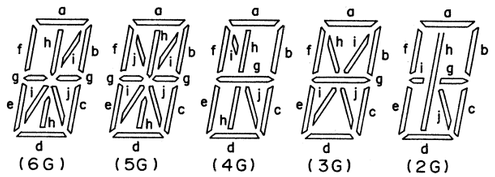




■ DESCRIPTION OF FL PANEL [FL901 (RSL0090-F)]

●GRID ASSIGNMENT





●PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CONNECTION	F1	F1	NP	NP	8G	NP	7G	NP	6G	NP	5G	NP	4G	NP	3G	NP	2G	NP	IG	NP	NP	NP	P11	NP

PIN NO.	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
CONNECTION	P10	NP	P9	NP	P8	NP	P7	NP	P6	NP	P5	NP	P4	NP	P3	NP	P2	NP	P1	NP	NP	NP	F2	F2

Notes: F1, F2 .....Filament
NP .....No pin
1G~8G .....Grid

●ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	a	a	a	a	a	
P2	B2	B2	b	b	b	b	b	
P3	B3	B3	c	c	c	c	c	
P4	B4	B4	d	d	d	d	d	
P5	B5	B5	e	e	e	e	e	
P6	B6	B6	f	f	f	f	f	
P7	B7	B7	g	g	g	g	g	
P8	B8	B8	h	h	h	h	h	
P9	B9	B9	i	i	i	i	i	
P10	B10	B10	j	j	j	j	j	mute
P11	S3	S2	—	—	—	—	—	S1

■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.
* Remote Control Ass'y:
Supply period for three years from termination of production.

Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC401	TC9163N	I. C, INPUT SELECTOR	
IC402, 403	M5238P-1	I. C, BUFFER AMP.	
IC451	AN6558F	I. C, PHONO EQ AMP.	
IC530	TC9212P	I. C, ATTENUATOR (VOLUME)	
IC551, 552	M5218P	I. C, TONE/SUPER BASS AMP.	
IC601	SVI3206C	I. C, POWER AMP.	⚠
IC901	M50940-194SP	I. C, MICRO COMPUTER	
IC1001	SVITA7629P	I. C, MODIFIED DOLBY/DECORD	
IC1002	M5238P-1	I. C, BUFFER AMP.	
IC1003	TC9212P	I. C, ATTENUATOR (VOLUME)	
IC1004	M5218P	I. C, BUFFER AMP.	
IC1005	M50198P	I. C, DIGITAL DELAY	
IC1101	SVI3101C	I. C, POWER AMP. (SURROUND)	⚠
		TRANSISTOR(S)	
Q403	UN4111	TRANSISTOR	
Q503, 504	2SC3327-A	TRANSISTOR	
Q505	2SA933SQR	TRANSISTOR	
Q551, 552	2SK301RSTA	TRANSISTOR	
Q601	2SA992EFTA	TRANSISTOR	
Q651	2SC1740SQ	TRANSISTOR	
Q652	2SA933SQR	TRANSISTOR	
Q701	2SD1761DEF	TRANSISTOR	
Q705	2SC3940AQSTA	TRANSISTOR	
Q708	2SB1187DEF	TRANSISTOR	
Q710	2SB1187DEF	TRANSISTOR	
Q722	UN4215	TRANSISTOR	
Q901, 902	2SC1740SQ	TRANSISTOR	
Q903-906	UN4211	TRANSISTOR	
Q907	2SA933SQR	TRANSISTOR	
Q910	UN4211	TRANSISTOR	
Q912-915	UN4211	TRANSISTOR	
Q1101	2SC3327-A	TRANSISTOR	
Q1102	2SA933SQR	TRANSISTOR	
		DIODE(S)	
D601	MA165	DIODE	
D651	MA165	DIODE	
D652	MA4068M	DIODE	
D653	MA165TA	TRANSISTOR	(PX)
D701-704	P300DLF	DIODE	⚠

Ref. No.	Part No.	Part Name & Description	Remarks
D705	MA4150M	DIODE	
D706	MA4068M	DIODE	
D707	MA165	DIODE	
D708	MA167	DIODE	
D709	MA4270	DIODE	
D711	MA4150M	DIODE	
D901	1SS291TA	DIODE	
D905-913	MA165	DIODE	
D915	MA165	DIODE	
D916	MA4056MTA	DIODE	
D917-924	LN081516PM-1	L. E. D.	
D925, 926	MA165	DIODE	
D927, 928	MA4068M	DIODE	
D1001	MA4120	DIODE	
D1002	MA165	DIODE	
D1101-1104	GP15GLF	DIODE	⚠
		VARIABLE RESISTOR(S)	
VR551, 552	EVJYA1F02C15	V. R, BASS/TREBLE CONTROL	
VR553	EVJ02QF02G15	V. R, BALANCE CONTROL	
VR554	EVJ02SF01G15	V. R, SURROUND BALANCE CONT.	
VR901	EVQWQAF2524B	V. R, MAIN VOLUME CONTROL	
		COIL(S)	
L601, 602	SLQY07G-40	COIL	
L901, 902	RLQZP101KT-Y	COIL	
L1001	RLQZP101KT-Y	COIL	
		TRANSFORMER(S)	
T701	RTP1Q5C003	POWER TRANSFORMER	⚠(P, P2, PC)
T701	RTP1Q5E003	POWER TRANSFORMER	⚠(PX)
		OSCILLATOR(S)	
X901	EFOGC4004A4	OSCILLATOR	
X1001	EFOGC3004T4	OSCILLATOR	
		DISPLAY	
FL901	RSL0090-F	DISPLAY	
		FUSE(S)	

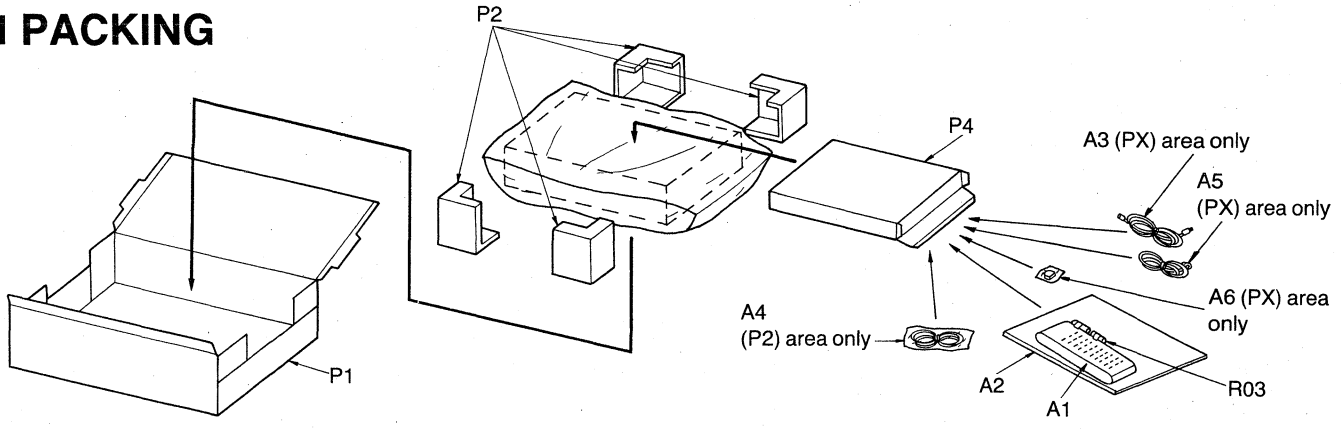
Ref. No.	Part No.	Part Name & Description	Remarks
F1	XBA1F70NU14	FUSE, 125V 7A	⚠ (P, P2, PC)
F1	XBA2C50TB0	FUSE, 250V 5A	(PX)
F2, 3	XBA1F25NU14	FUSE, 125V 2.5A	⚠ (P, P2, PC)
F2-4	XBA2C25TB0	FUSE, 250V 2.5A	(PX)
		SWITCH(ES)	
S601-1	SSH2128	SW, SPEAKER SELECTOR (A)	
S601-2	SSH2128	SW, SPEAKER SELECTOR (B)	
S701	ESB8279V	SW, POWER	⚠
S751	ESE37263	SW, VOLTAGE SELECTOR	⚠ (PX)
S901	EVQ21405R	SW, INPUT SEL. (PHONO)	
S902	EVQ21405R	SW, INPUT SEL. (TUNER)	
S903	EVQ21405R	SW, INPUT SEL. (CD)	
S904	EVQ21405R	SW, INPUT SEL. (TAPE)	
S905	EVQ21405R	SW, INPUT SEL. (VCR2/TV)	
S906	EVQ21405R	SW, INPUT SEL. (DAT/VCR1)	
S907	EVQ21405R	SW, SUPER BASS	
S908	EVQ21405R	SW, REAR LEVEL (UP)	
S909	EVQ21405R	SW, REAR LEVEL (DOWN)	
S910	EVQ21405R	SW, DOLBY SURROUND	
		JACK(S)	
JK401	SJF3069N	TERMINAL BOARD (PHONO/TUNER)	
JK402	SJF3069N	TERMINAL BOARD (CD/TAPE)	
JK403	SJF3069N	TERMINAL BOARD (VCR2/TV)	
JK404	SJF3069N	TERMINAL BOARD (VCR1/DAT/EQ)	
JK405	SJF3069N	TERMINAL BOARD (MAIN IN)	
JK601	RJR0054M	TERMINAL BOARD (SPEAKER A)	
JK602	RJR0054M	TERMINAL BOARD (SPEAKER B)	
JK603	RJR0054M	TERMINAL BOARD (S. P. REAR)	
JK604	QJA0455ZC	HEADPHONES JACK	
JK701	SJS9234B	AC INLET	⚠ (P, P2, PC)
JK701	SJS9231-1B	AC INLET	⚠ (PX)
JK702	SJS9233B	AC OUTLET	⚠
JK703	SJS9233B	AC OUTLET	⚠
JK704	SJS9233B	AC OUTLET	⚠
JK901	RJJ33TR01	M3 JACK (REMOTE CONTROL)	
JK902	RJJ33TR01	M3 JACK (REMOTE CONTROL)	
		CONNECTOR(S)	
CN501	RJU003K008M1	SOCKET(8P)	
CN501A	RJT003K008M1	CONNECTOR(8P)	
CN601	RJS1A1703	CONNECTOR(3P)	
CN651	SJT3213	CONNECTOR(2P)	
CN652	SJT3213	CONNECTOR(2P)	(PX)
CN901	RJU003K008M1	SOCKET(8P)	
CN901A	RJT003K008M1	CONNECTOR(8P)	
CN902	RJU003K008M1	SOCKET(8P)	
CN902A	RJT003K008M1	CONNECTOR(8P)	

Ref. No.	Part No.	Part Name & Description	Remarks
CN903	RJU003K008M1	SOCKET(8P)	
CN903A	RJT003K008M1	CONNECTOR(8P)	
CN1001	RJT057W007-1	CONNECTOR(7P)	
CN1001B	RJU057W007	SOCKET(7P)	
CN1002	RJT057W007-1	CONNECTOR(7P)	
CN1002B	RJU057W007	SOCKET(7P)	
CN702-1	RJS1A1703	SOCKET(3P)	
CN702-2	RJS1A1703	SOCKET(3P)	
CN602A	RJS1A1704	SOCKET(4P)	
CN703A	RJS1A1703	SOCKET(3P)	
CN701A-1	RJS1A1705	SOCKET(5P)	
CN701A-2	RJS1A1705	SOCKET(5P)	
CN602B	RJS1A1704	SOCKET(4P)	
CN703B	RJS1A1703	SOCKET(3P)	
CN701B-1	RJS1A1703	SOCKET(3P)	
CN701B-2	RJS1A1703	SOCKET(3P)	
		FUSE HOLDER(S)	
E701	RJR0011	FUSE HOLDER	(P, P2, PC)
E701	EYF52BC	FUSE HOLDER	(PX)
E702	RJR0011	FUSE HOLDER	(P, P2, PC)
E702	EYF52BC	FUSE HOLDER	(PX)
E703	RJR0011	FUSE HOLDER	(P, P2, PC)
E703	EYF52BC	FUSE HOLDER	(PX)
E704	RJR0011	FUSE HOLDER	(P, P2, PC)
E704	EYF52BC	FUSE HOLDER	(PX)
		RELAY	
RL601	SSY134	RELAY	
		THEREMAL DETECTOR(S)	
TH601	SRPBD47101	THEREMAL DETECTOR	(PX)

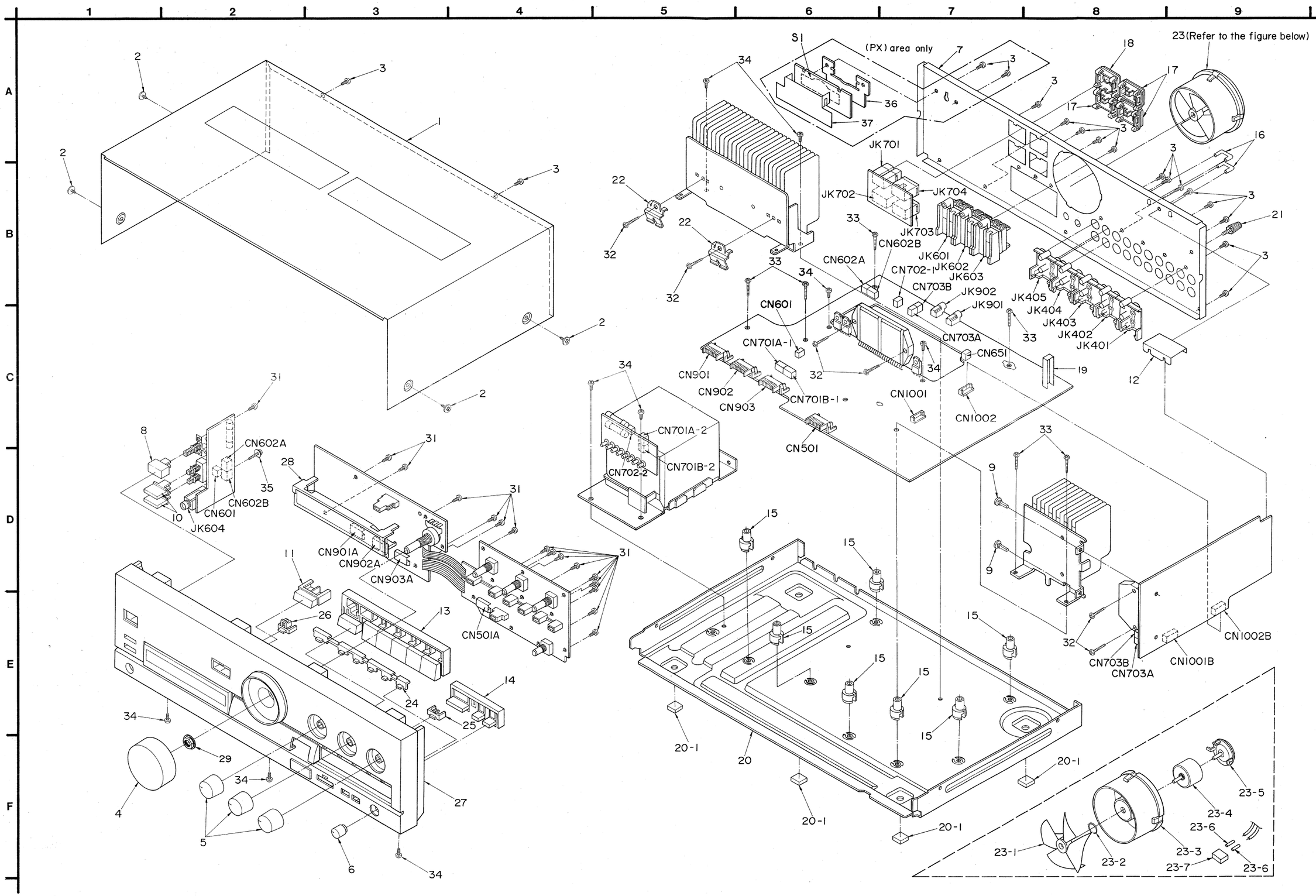
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET PARTS	
1	RKM0016A-K	CABINET	
2	SNE2129-1	SCREW	
3	XTBS3+8JFZ1	SCREW	
4	RGW0071	KNOB, VOLUME	
5	RGW0072	KNOB, TONE	
6	RGW0073	KNOB, DOLBY SURROUND	
7	RGR0080B-B1	REAR PANEL	(P, P2, PC)
7	RGR0080G-A1	REAR PANEL	(PX)
8	RGU0030	BUTTON, POWER	
9	SHR411	LATCH	
10	RGU0101	BUTTON, SPEAKER SELECT	
11	RGU0350	BUTTON, SUPER BASS	
12	RMA0295	ANGLE	
13	RGU0349-K2	BUTTON, SELECT	
14	RGU0351	BUTTON, DOLBY SURROUND	
15	SHE187-2	HOLDER	
16	SJP9205-2T	SHORTING PIN	
17	SJS9233A	AC OUTLET COVER	
18	SJS9234A	AC INLET COVER	(P, P2, PC)
18	SJS9231A	AC INLET COVER	(PX)
19	RSC0105	PLATE	
20	RFKJUG90P-K	BOTTOM BOARD ASS'Y	
20-1	SKL293	FOOT	
21	SNE2123	GND SCREW	
22	SUS894-1	SPRING	
23	SYE1128-4	FAN ASS'Y	
23-1	SHE232	FAN	
23-2	SUS271	SPRING	
23-3	SHE233	FAN CASE	
23-4	MDN-4RB4MRC	MOTOR	
23-5	SHE234	CAP	
23-6	SJT783	TERMINAL	
23-7	SJS5215	SOCKET(2P)	
24	RFKNUG70P-K1	ORNAMENT ASS'Y(INPUT SEL.)	
25	RFKNUG70P-K2	ORNAMENT ASS'Y(SURROUND)	
26	RFKNUG70P-K3	ORNAMENT ASS'Y(SUPER BASS)	
27	RFKGUG90P-K	FRONT PANEL ASS7Y	
28	SHR9861	FL HOLDER	

Ref. No.	Part No.	Part Name & Description	Remarks
29	SNE4021-1	NUT	
31	XTBS26+8J	SCREW	
32	XTB3+16JFZ	SCREW	
33	XTB3+20JFZ	SCREW	
34	XTB3+8JFZ	SCREW	
35	XTWS3+8T	SCREW	
36	RMA0317	ANGLE	(PX)
37	RMZ0111	SHEET	(PX)
		PACKING MATERIALS	
P1	RPG0875	PACKING CASE	(P, P2, PC)
P1	RPG0876	PACKING CASE	(PX)
P2	RPN0324	PAD	
P3	XZB24X33C04	PROTECTION COVER(MANUAL)	(P, P2)
P3	SPB1061	PROTECTION COVER(MANUAL)	(PC, PX)
P4	SPSD155	ACCESSORIES BOX	
		ACCESSORIES	
A1	RAK-SA501P1	REMOTE CONTROLLER	(P, P2, PC)
A1	RAK-SA502E	REMOTE CONTROLLER	(PX)
A1-1	RKK0020-K	BATTERY COVER	(P, P2, PC, PX)
A2	RQF1061	INSTRUCTIONS MANUAL ASS'Y	(P)
A2	RQF1064	INSTRUCTIONS MANUAL ASS'Y	(P2)
A2	RQF1063	INSTRUCTIONS MANUAL ASS'Y	(PC)
A2	RQF1065	INSTRUCTIONS MANUAL ASS'Y	(PX)
A2-1	RQT0970-P	INSTRUCTIONS MANUAL	(P)
A2-1	RQT0973-P	INSTRUCTIONS MANUAL	(P2)
A2-1	RFKSCS3200PC	INSTRUCTIONS MANUAL	(PC)
A2-1	RQT0974-M	INSTRUCTIONS MANUAL	(PX)
A2-2	SQX7179	WARRANTY CARD	(P, P2)
A2-2	SQX7183	WARRANTY CARD	(PC)
A2-2	SQX7071-1	WARRANTY CARD	(PX)
A2-3	SQX9129-1	SERVICE CENTOR LIST	(P, P2)
A2-3	SQX9131	SERVICE CENTOR LIST	(PC)
A3	RJA0004	AC POWER SUPPLY CORD	⚠(PX)
A4	REE0331	S.P. CORD	(P2)
A5	SJP2257T	L-TYPE CABLE	(PX)
A6	SJP9215	AC PLUG ADAPTOR	(PX)

■ PACKING



■ CABINET PARTS LOCATION



Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM) , 1M=1,000k (OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R405, 406	ERDS2TJ470	1/4W 47
R407, 408	ERDS2TJ473	1/4W 47K
R411, 412	ERDS2TJ104	1/4W 100K
R413, 414	ERDS2TJ102	1/4W 1K
R415, 416	ERDS2TJ222	1/4W 2.2K
R417, 418	ERDS2TJ104	1/4W 100K
R419, 420	ERDS2TJ222	1/4W 2.2K
R421	ERDS2TJ332	1/4W 3.3K
R425, 426	ERDS2TJ102	1/4W 1K
R427, 428	ERDS2TJ473	1/4W 47K
R429, 430	ERDS2TJ104	1/4W 100K
R431-444	ERDS2TJ102	1/4W 1K
R451, 452	ERDS2TJ821	1/4W 820
R453, 454	ERDS2TJ224T	1/4W 220K
R455, 456	ERDS2TJ563	1/4W 56K
R457, 458	ERDS2TJ271	1/4W 270
R459, 460	ERDS2TJ680T	1/4W 68
R461, 462	ERDS2TJ184T	1/4W 180K
R463, 464	ERDS2TJ123	1/4W 12K
R465, 466	ERDS2TJ563	1/4W 56K
R467, 468	ERDS2TJ102	1/4W 1K
R505, 506	ERDS2TJ104	1/4W 100K
R515, 516	ERDS2TJ222	1/4W 2.2K
R517, 518	ERDS2TJ102	1/4W 1K
R520	ERDS2TJ394	1/4W 390K
R521	ERDS2TJ104	1/4W 100K
R522	ERDS2TJ103	1/4W 10K
R551-554	ERDS2TJ474	1/4W 470K
R555, 556	ERDS2TJ392T	1/4W 3.9K
R557, 558	ERDS2TJ272T	1/4W 2.7K
R559, 560	ERDS2TJ183T	1/4W 18K
R561, 562	ERDS2TJ332	1/4W 3.3K
R563, 564	ERDS2TJ122	1/4W 1.2K
R565, 566	ERDS2TJ821	1/4W 820
R567, 568	ERDS2TJ223	1/4W 22K
R573, 574	ERDS2TJ563	1/4W 56K
R575, 576	ERDS2TJ102	1/4W 1K
R577, 578	ERDS2TJ471	1/4W 470
R579, 580	ERDS2TJ682T	1/4W 6.8K
R581, 582	ERDS2TJ824	1/4W 820K
R583, 584	ERDS2TJ222	1/4W 2.2K
R590	ERDS2TJ224T	1/4W 220K
R591	ERDS2TJ563	1/4W 56K
R601, 602	ERDS2TJ102	1/4W 1K
R603, 604	ERDS2TJ563	1/4W 56K
R605, 606	ERDS2TJ182	1/4W 1.8K

Ref. No.	Part No.	Values & Remarks
R607, 608	ERDS2TJ563	1/4W 56K
R609, 610	ERDS2TJ100	1/4W 10
R611, 612	ERDS1FVJ100T	1/2W 10 ⚠
R613	ERDS2TJ223	1/4W 22K
R614	ERD25FJ470	1/4W 47 ⚠
R615	ERDS2TJ473	1/4W 47K ⚠
R616-618	ERDS1FVJ681T	1/2W 680 ⚠
R619, 620	ERG2SJ331P	2W 330
R621, 622	ERDS2TJ122	1/4W 1.2K
R623	ERDS2TJ684	1/4W 680K
R624	ERDS2TJ103	1/4W 10K ⚠
R627	ERDS2TJ154	1/4W 150K
R628	ERDS2TJ684	1/4W 680K
R629	ERDS2TJ101	1/4W 100
R630	ERDS2TJ103	1/4W 10K
R651-654	ERDS2TJ223	1/4W 22K
R655	ERDS2TJ392T	1/4W 3.9K
R656, 657	ERDS2TJ103	1/4W 10K
R658	ERDS2TJ223	1/4W 22K
R659-661	ERDS1FVJ220T	1/2W 22 ⚠
R670	ERDS2TJ153T	1/4W 15K (PX)
R708	ERDS1FVJ220T	1/2W 22
R710	ERDS2TJ272T	1/4W 2.7K ⚠
R711	ERDS2TJ223	1/4W 22K
R712	ERDS2TJ103	1/4W 10K
R715	ERDS2TJ103	1/4W 10K ⚠
R716	ERDS2TJ222	1/4W 2.2K ⚠
R717	ERD25FVJ150T	1/4W 15 ⚠
R771	ERDS1FJ120	1/2W 12 ⚠
R773	ERDS2TJ153	1/4W 15K ⚠
R777	ERDS1FJ120	1/2W 12 ⚠
R780	ERDS1FVJ180T	1/2W 18 ⚠
R891	ERDS2TJ100	1/4W 10
R901, 902	ERDS2TJ104	1/4W 100K
R903, 904	ERDS2TJ273	1/4W 27K
R905-908	ERDS2TJ104	1/4W 100K
R909	ERDS2TJ274	1/4W 270K
R910, 911	ERDS2TJ153	1/4W 15K
R912, 913	ERDS2TJ104	1/4W 100K
R914	ERDS2TJ102	1/4W 1K
R915	ERDS2TJ103	1/4W 10K
R916	ERDS2TJ472	1/4W 4.7K
R917	ERDS2TJ221	1/4W 220
R918	ERDS2TJ562	1/4W 5.6K
R919	ERDS2TJ272T	1/4W 2.7K
R921	ERDS2TJ103	1/4W 10K
R922	ERDS2TJ392T	1/4W 3.9K
R923	ERDS2TJ224T	1/4W 220K
R924	ERDS2TJ105T	1/4W 1M

Ref. No.	Part No.	Values & Remarks
R925-928	ERDS2TJ104	1/4W 100K
R929, 930	ERDS2TJ101	1/4W 100
R931	ERDS2TJ151	1/4W 150
R932, 933	ERDS2TJ101	1/4W 100
R934	ERDS2TJ330	1/4W 33
R935, 936	ERDS2TJ101	1/4W 100
R937	ERDS2TJ103	1/4W 10K
R938	ERDS2TJ271	1/4W 270
R939	ERDS2TJ391	1/4W 390
R940	ERDS2TJ122	1/4W 1.2K
R943-948	ERDS2TJ104	1/4W 100K
R949	ERDS2TJ102	1/4W 1K
R956, 957	ERDS2TJ102	1/4W 1K
R960	ERDS2TJ103	1/4W 10K
R961	ERDS2TJ821	1/4W 820
R962	ERDS2TJ102	1/4W 1K
R963	ERDS2TJ122	1/4W 1.2K
R964	ERDS2TJ152	1/4W 1.5K
R965	ERDS2TJ182	1/4W 1.8K
R966	ERDS2TJ222	1/4W 2.2K
R967	ERDS2TJ332	1/4W 3.3K
R968	ERDS2TJ472	1/4W 4.7K
R969	ERDS2TJ682T	1/4W 6.8K
R970	ERDS2TJ103	1/4W 10K
R971	ERDS2TJ104	1/4W 100K
R1001-1004	ERDS2TJ183T	1/4W 18K
R1005-1010	ERDS2TJ153	1/4W 15K
R1011	ERDS2TJ272T	1/4W 2.7K
R1012	ERDS2TJ471	1/4W 470
R1013	ERDS2TJ101	1/4W 100
R1014	ERDS2TJ122	1/4W 1.2K
R1015, 1016	ERDS2TJ473	1/4W 47K
R1017	ERDS2TJ274	1/4W 270K
R1018	ERDS2TJ154	1/4W 150K
R1019	ERDS2TJ332	1/4W 3.3K
R1020	ERDS2TJ181T	1/4W 180
R1021, 1022	ERDS2TJ223	1/4W 22K
R1023	ERDS2TJ103	1/4W 10K
R1024-1026	ERDS2TJ474	1/4W 470K
R1027-1029	ERDS2TJ332	1/4W 3.3K
R1030	ERDS2TJ333	1/4W 33K
R1031	ERDS2TJ105T	1/4W 1M
R1032	ERDS2TJ103	1/4W 10K
R1033, 1034	ERDS2TJ392T	1/4W 3.9K
R1035	ERDS2TJ103	1/4W 10K
R1036	ERD25FJ820	1/4W 82 ⚠
R1101, 1102	ERDS2TJ222	1/4W 2.2K
R1103, 1104	ERDS2TJ563	1/4W 56K
R1107, 1108	ERDS2TJ563	1/4W 56K

Ref. No.	Part No.	Values & Remarks
R1109, 1110	ERDS2TJ102	1/4W 1K
R1111	ERDS2TJ684	1/4W 680K
R1112	ERD25FJ470	1/4W 47 ⚠
R1113	ERDS2TJ564	1/4W 560K ⚠
R1114	ERDS2TJ154	1/4W 150K
R1115, 1116	ERD25FVJ4R7T	1/4W 4.7 ⚠
R1117	ERDS2TJ222	1/4W 2.2K
R1118	ERDS2TJ104	1/4W 100K
R1120	ERDS2TJ824	1/4W 820K
R1121	ERDS2TJ104	1/4W 100K
R1123	ERDS2TJ102	1/4W 1K
		CAPACITORS
C401, 402	ECKR1H103ZF5	50V 0.01U
C407, 408	ECBT1H101KB5	50V 100P
C409, 410	ECKR1H103ZF5	50V 0.01U
C411, 412	ECEA1VU4R7	35V 4.7U
C415, 416	ECKR1H103ZF5	50V 0.01U
C419	ECEA0JU101B	6.3V 100U
C421, 422	ECEA1CK220	16V 22U
C425	ECBT1H101KB5	50V 100P
C426	ECKR1H103ZF5	50V 0.01U
C427, 428	ECBT1H101KB5	50V 100P
C429, 430	ECEA1VPS4R7	35V 4.7U
C431-444	ECBT1H101KB5	50V 100P
C451, 452	ECEA1VU4R7	35V 4.7U
C453, 454	ECBT1H101KB5	50V 100P
C455, 456	ECBT1H102KB5	50V 1000P
C457, 458	ECFR1E223KR	25V 0.022U
C459, 460	ECFR1E682KR	25V 6800P
C461, 462	ECEA1VU4R7	35V 4.7U
C463, 464	ECEA1CU220	16V 22U
C513, 514	ECEA1VU4R7	35V 4.7U
C520	ECKR1H103ZF5	50V 0.01U
C531, 532	ECKR1H103ZF5	50V 0.01U
C533, 534	ECEA1CK100B	16V 10U
C535-538	ECEA1VU4R7	35V 4.7U
C550	ECBT1E223ZF	25V 0.022U
C553, 554	ECBT1H150J5	50V 15P
C555, 556	ECBT1H221KB5	50V 220P
C557, 558	ECBT1H330J5	50V 33P
C559, 560	ECEA1CU100	16V 10U
C561, 562	ECFR1E123KR	25V 0.012U
C563, 564	ECFR1E683KR	25V 0.068U
C565, 566	ECFR1E562KR	25V 5600P
C567, 568	ECFR1E273KR	25V 0.027U
C569, 570	ECEA1CK100B	16V 10U
C571, 572	ECKR1H103ZF5	50V 0.01U
C583-586	ECFR1E104KR	25V 0.1U
C601, 602	ECEA1VU4R7	35V 4.7U
C603, 604	ECKR1H391KB5	50V 390P

Ref. No.	Part No.	Values & Remarks
C605, 606	ECEA1CU220	16V 22U
C607, 608	ECCR1H100KC5	50V 10P
C609, 610	ECCR1H151KC5	50V 150P
C611, 612	ECFR1E223KR	25V 0.022U
C613	ECEA1VU470	35V 47U
C614	ECEA1HU330	50V 33U
C615	ECEA2AU100	100V 10U
C616	ECEA2AN2R2SB	100V 2.2U ⚠
C617, 618	ECKD1H681KB	50V 680P
C651	ECEA1HK010B	50V 1U
C701, 702	ECES75V752UX	75V 7500U ⚠
C703	ECKR2H103ZU	500V 0.01U ⚠
C705	ECEA1CK100B	16V 10U
C706	ECKR1H103ZF5	50V 0.01U
C707	ECEA2AN2R2SB	100V 2.2U
C709	ECKR1H103ZF5	50V 0.01U ⚠
C710	ECKR1H103ZF5	50V 0.01U
C711	ECEA1CU101	16V 100U
C712	ECEA1VU470	35V 47U ⚠
C751, 752	ECES75V752UX	75V 7500U ⚠
C771	ECKR2H103ZU	500V 0.01U ⚠
C791 ⚠	ECKWKC103PF2	400V 0.01U (P, P2, PC)
C791 ⚠	ECKWNS103ZVS	400V 0.01U (PX)
C901	ECEA0JU102	6.3V 1000U
C902	ECBT1C103MS5	16V 0.01U
C903	ECEA0JU471	6.3V 470U
C904	ECEA1HKR47	50V 0.47U
C905	ECEA1HK010B	50V 1U
C906	ECBT1C103MS5	16V 0.01U
C907, 908	ECFR1E563KR	25V 0.056U
C909, 910	ECEA1HK2R2B	50V 2.2U
C911, 912	ECEA1VU330	35V 33U
C913, 914	ECEA1HK4R7	50V 4.7U
C919, 920	ECBT1C272MR5	16V 2700P
C930-939	ECBT1H331KB5	50V 330P
C950	ECBT1E223ZF	25V 0.022U
C1001, 1002	ECKR1H103ZF5	50V 0.01U
C1003	ECEA1HU010	50V 1U
C1004	ECQM1H332JZ	50V 3300P
C1005	ECBT1H561KB5	50V 560P
C1006	ECQB1H104KF3	50V 0.1U
C1007	ECEA1CU470	16V 47U
C1008, 1009	ECQV1H474JZ3	50V 0.47U
C1010	ECQB1H104KF3	50V 0.1U
C1011	ECQM1H332JZ	50V 3300P
C1012	ECBT1H561KB5	50V 560P
C1013	ECEA1HU010	50V 1U
C1014	ECQM1H123JV3	50V 0.012U
C1015	ECFR1E104KR	25V 0.1U
C1016	ECEA0JU101B	6.3V 100U
C1017	ECEA1CU100	16V 10U
C1018	ECQM1H472JZ	50V 4700P

Ref. No.	Part No.	Values & Remarks
C1019	ECQM1H273KV3	50V 0.027U
C1020	ECQM1H473JZ	50V 0.047U
C1021	ECEA1CU100	16V 10U
C1022	ECQB1H104KF3	50V 0.1U
C1023	ECQV1H334JZ3	50V 0.33U
C1024	ECEA1CU221	16V 220U
C1025	ECEA1CU470	16V 47U
C1026	ECQM1H562JZ	50V 5600P
C1027	ECEA1CU100	16V 10U
C1028, 1029	ECEA1HU010	50V 1U
C1030-1032	ECEA1EU3R3	25V 3.3U
C1033	ECEA1HU3R3	50V 3.3U
C1034, 1035	ECKR1H103ZF5	50V 0.01U
C1036-1038	ECBT1H181KB5	50V 180P
C1101, 1102	ECEA1HU3R3	50V 3.3U
C1103, 1104	ECBT1C122MR5	16V 1200P
C1105, 1106	ECBT1H821KB5	50V 820P
C1107, 1108	ECEA1HU220	50V 22U
C1109, 1110	ECBT1H100J5	50V 10P
C1111	ECEA1HN100SB	50V 10U
C1112	ECEA1HU330	50V 33U
C1113, 1114	ECKT1H223ZF	50V 0.022U
C1115, 1116	ECEA1VU332	35V 3300U ⚠
C1117	ECKR2H103ZU	500V 0.01U ⚠
C1118	ECKR1H103ZF5	50V 0.01U

Printed in Japan
F910304050FF/HH/TM